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62.23



PETUNIA "GLOW"
All America Silver
Medal Winner

Gregg Ball
INC.

"Flower Seeds for Florists"

Those PLANT BANDS

INTRODUCED by us last season, have received an enthusiastic and a profitable reception. If you are not familiar with them, we suggest at least a trial. Many of our largest greenhouse and nursery men are using them in 100 and 200 thousand lots. Clay pots are costly, easily broken, and young stock quickly dries out and gets hard in them. Not so in a Plant Band, for this reason: any size holds 2 to 3 times as much soil as a clay pot of same size, and the square bands set squarely together means uniform moisture—very important. When young stock for planting out is lifted from open soil, the check it ordinarily gets, sets it back and weakens it more than is generally appreciated. This is overcome in using those Plant Bands. Note that we have developed several large sizes with bottoms. They should be of particular interest to nurserymen.

SIZES, PRICES, AND SHIPPING WEIGHTS

Prices given are F.O.B. our Warehouse West Chicago

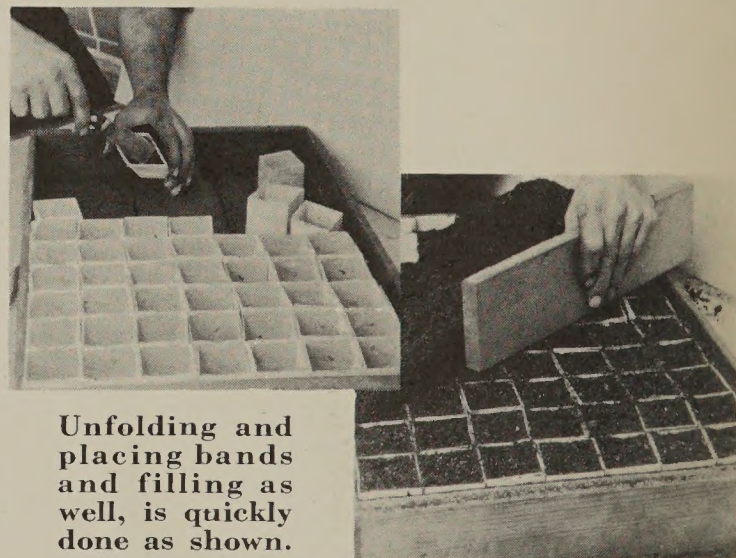
	Wt. per 1000		Wt. per 1000
1 3/4 x 1 3/4 x 2 1/2		3x3x6	
500.....\$1.30		500.....\$2.35	
1000.....2.40	19 lbs.	1000.....4.60	66 lbs.
2x2x3		4x4x6	
500.....\$1.40		500.....\$3.05	
1000.....2.60	21 lbs.	1000.....6.05	94 lbs.
2 1/2 x 2 1/2 x 3		6x6x6	
500.....\$1.45		500.....\$5.45	
1000.....2.75	33 lbs.	1000.....10.80	170 lbs.
3x3x3			
500.....\$1.50			
1000.....2.85	38 lbs.		
3x3x4		4x4x4	
500.....\$1.65		500.....\$3.05	
1000.....3.10	44 lbs.	1000.....6.05	68 lbs.
4x4x3		4x4x6	
500.....\$1.65		500.....\$4.15	
1000.....3.10	45 lbs.	1000.....8.20	98 lbs.
4x4x4		6x6x6	
500.....\$1.85		500.....\$8.10	
1000.....3.55	56 lbs.	1000.....16.10	190 lbs.

Quantity discount of 5% is allowed on orders of 25,000 made up of various sizes. If interested in larger quantities write us.



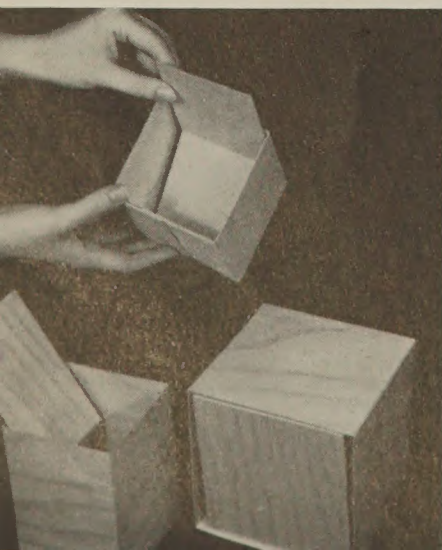
No Chemical in Wood Bands to Hurt Roots as is Sometimes the Case With Paper

Young Asters at West Chicago enjoying those Plant Bands. Note they are bottomless, an advantage in that roots that curl up and harden in small pots are left loose, as shown, to take immediate hold when set out. Bands quickly removed, or set out as is. To prevent rooting into lower soil, we use flats for growing young stock, setting bands on bottom; this saves handling individually when planting out. If soil is light, press it some in Bands before planting. If Bands are quite dry, they tend to split some in handling; soak if necessary before using. Also—figure your wants early and have them sent by freight to save on delivery.



Unfolding and placing bands and filling as well, is quickly done as shown.

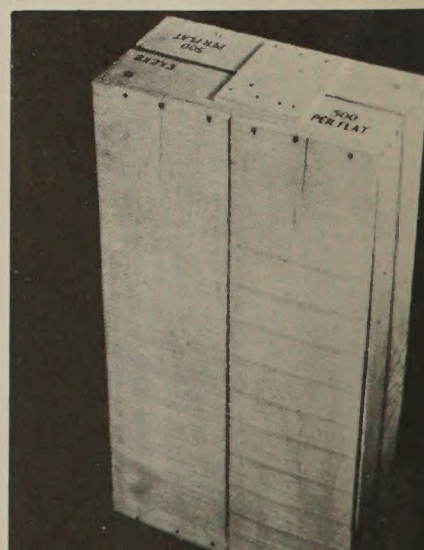
The New Bands with Bottoms



We are exclusive selling agents for these Bands east of Rocky Mts. and stock them in carload lots at West Chicago from where shipments are made. All Canadian orders are handled exclusively for us by Dale Estate; Brampton, Ontario to whom orders should be sent.



Showing 1000 bands packed in two flats (one unit) ready for shipment



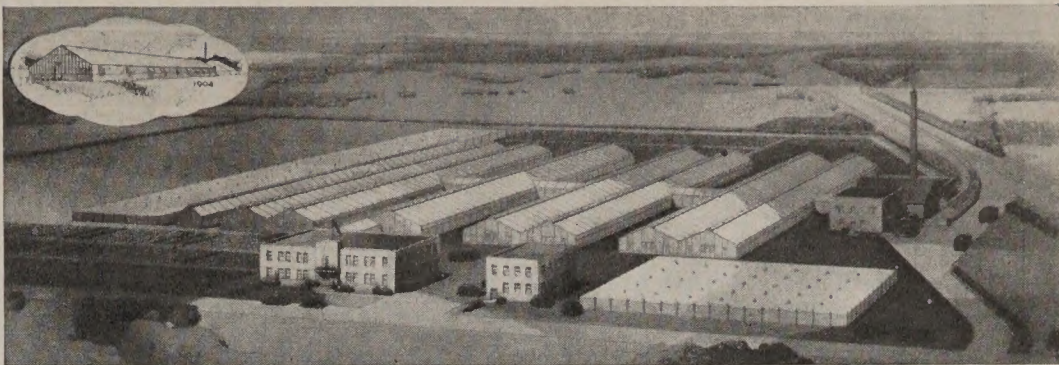
Catalog No. 37, January, 1940
1940 — ?

Occasionally we get a letter telling us if we don't cut out the political "stuff" here "we won't buy any more seed from you." That would of course, be mutually too bad. We aren't interested in politics except as it concerns the public welfare and that must interest you, too. The deplorable state of affairs brought on by the past eight years during which business has been crippled and robbed to maintain in demoralizing idleness millions of our people must stop. Most of these idlers not only are robbed of the incentive to work but are fast forgetting how. Changing this situation can only be done by responsible voters. The better business we are now enjoying is not on a solid footing. Don't spend on it. *Clear up your obligations*; for our 41 billion dollar debt must be paid in one way or another. These questions deeply concern the business or life of every responsible citizen.

Geo. J. Ball.

NOTE—CASH DISCOUNT! When cash is enclosed, a discount of 5% is allowed on all orders from \$1.00 to \$25.00. On \$25.00 and over, 8% is allowed. Prices quoted on Cyclamen Seed and Plant Bands however are net, no cash discount allowable.

We Pay Parcel Post Charges and Insurance to any post office in the United States or Canada on all orders at prices quoted in this catalog. This simplifies figuring the cost of your order. **If Unknown to Us**, or if overdue accounts are standing (60 days), cash must be enclosed with orders unless other arrangements are agreed to in advance. **Small Orders Are Welcomed** gladly and receive our well known service. In return, we suggest cash be enclosed with such orders. **Air Mail Delivery.** Allow 8c per ounce for seeds ordered, which will allow for wrapping material. **Prices** in this catalog are subject to change without notice.



No ½ Tr. Pkts. supplied except where noted. **Our Business** and prices are exclusively for florists. We issue no retail catalog. This catalog is not for amateurs. **No Commission Boxes.** Our seed is not put in retail packets. **Crop Failures.** All items in this catalog are offered subject to crop shortages or failures. **No Crop Guarantee.** For reasons that should be clear to any experienced planter, seed crops cannot be guaranteed. We use every precaution to supply only seeds of the highest quality in every respect, and we will promptly refund the price paid for same should they prove unsatisfactory under reasonable care. All seed is sold under the seedsmen's disclaimer as follows: **Disclaimer.** We, Geo. J. Ball, Inc., give no warranty expressed or implied, as to description, quality, productiveness or any other matter of any seeds we sell, and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms, they are at once to be returned and the money paid for same will be refunded promptly.

NOTE: Our seed cannot be bought from dealers or agents, EXCEPT IN OUR PRINTED PACKETS OR CONTAINERS. Avoid uncertainty and possible loss by ordering direct from us, or through our regular representatives who sell in our containers only.

Important. Make all checks or money orders payable to **Geo. J. Ball, Inc., West Chicago, Illinois.** **Our Address is WEST CHICAGO, ILLINOIS**, on Highways U.S. 330 or Illinois 64—and on Chicago and Northwestern Ry. You are always welcome here.

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Varieties of

Under this heading, we call your attention to the season's new and standard varieties of special and general value. We have used much care in making up this list. We will not say that every item will be adapted to your conditions or demands, but we are certain that it will pay you to go over it with the same care we used in making it up, for every item is of special value.

The Season's Outstanding Petunias

BALL ALL DOUBLE MIXTURE

Complaints on the color blend of Victorious All Double Mixture induce us to prepare and offer our **formula mixture** that consists of ½ Pink Perfection (World Beauty), ¼ Snowball, with lesser proportions of Appleblossom, Amaranth Red, Orchid Beauty, and Gaiety. Made up of straight named varieties, no mixtures, the price must be the same as the varieties composing it. ½ tr. pkt., (500 seeds), \$1.25; tr. pkt. (1000 seeds), \$2.00; 3 tr. pkts., \$5.00. ¼ oz., \$6.50; ½ oz., \$12.50; 1 oz., \$22.50.

GLOW (New)

In color on front cover. A striking carmine rose with distinct white throat. The strong color when compared with Celestial Rose, makes that variety seem faded. Extra strong growth, dwarf Hybrid habit. Colored picture is from our trial ground line taken Oct. 1 when flowers had lost some in size, but the picture did get its true color. Silver medal winner in All America Trials, 1938. Don't overlook it. Tr. pkt., 75c; ½ oz., \$2.50; ¼ oz., \$4.50; 1 oz., \$8.00.

BALL DWARF GIANT NO. 1

Most uniformly dwarf Giant strain, possible to produce. 90% can be depended on to be dwarf Giants. ½ tr. pkt., 75c; tr. pkt., \$1.25; ¼ oz., \$2.25; ½ oz., \$4.00; 1 oz., \$7.00.



Petunia White Queen
Exact photo as was, one plant from our last
spring's greenhouse trials

* * * *

THE VARIEGATED PEPPER

Found by us in Japan the past season. We feel convinced that in the combination of colors it represents, ivory white and green

An investment in several plant novelties every year yields big dividends.

WHITE QUEEN

Extra large, pure white ruffled edged Grandiflora; note photo. Makes a striking pot plant and plenty strong in growth for bedding. Tr. pkt., 50c; ¼ oz., \$1.25; ½ oz., \$2.00; 1 oz., \$3.75.

ADMIRAL

Very attractive blue variety with small attractively ruffled flowers. A dwarf, compact growth makes this variety particularly well suited to flat or pot sales. Tr. pkt., 75c; ½ oz., \$1.50; ¼ oz., \$2.75; 1 oz., \$5.00.



Marigold Orange Sunset. Very fine for Spring flowering. Grow single stem 4x4 in. in flats or shallow beds from January sowing.

foliage with purple shading and red berries, we have found an ornamental pot plant of distinctive value, either as specimens with about 3 plants in a pot or as smaller plants for combinations. Most seed is sown in May, but for Xmas, wait until early June; and for southern points, late in that month. See page 40 for further description. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

ASTER ROSE MARIE (New)

Early Giant rot resistant bright medium deep rose. Belongs with early Giant Light Blue sent out last year. Trials of Rose Marie in the middle west were 100% rot resistant the past season, which leads us to believe it well belongs on this page. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.50.

BEGONIA ADELINE

Tho not a heterosis variety, we find it fully as uniformly dwarf as Pink Pearl and the same attractive pink color. Tr. pkt., \$1.00; ¼ oz., \$2.00; ½ oz., \$3.85.

BEGONIA KING OF THE REDS

Another outstanding, uniformly dwarf, green foliage variety. Glowing red color. If conditions make it impossible to get Rose and Red Pearl from Germany, the above two will take their place. Tr. pkt., \$1.00; ¼ oz., \$2.00; ½ oz., \$3.85.

BALL MATRICARIA

Introduced by us a few years ago, this seed propagated strain has been found valuable by outdoor cut flower growers. Comes 85 to 90% double and is strong enuf in growth to produce long stems outdoors. ½ tr. pkt., 30c; tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$1.75.

DAHLBORG DAISY

160,000 S. per oz.

An absolutely uniform, free and continuous flowering border plant. Doesn't get over 8 in. high with a 10-15 in. spread. Covers itself from quite small plants until frost with small yellow single flowers. Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$1.65; 1 oz., \$5.00.

Special Value

NON-BRANCHING STOCKS

One of our leading specialties. In the middle states, can be safely sown up to Feb. 15. Sown at this date, will flower in June. Following are the leading colors. For complete list of branching, as well as non-branching, see pages 18 and 19.

Lilac Lavender No. 1

Ball White Imp. No. 15

Ball Pink No. 11

Ball Blue No. 3

Prices on all above Non-branching varieties: ½ tr. pkt., 60c; tr. pkt. (about 1200 seeds), \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

MARIGOLD ORANGE SUNSET

A clear orange Giant, in fact, the largest flowering variety. In flower formation or petalage, it is between the carnation flowered and the Giant Africans. Fine for large flowered cutting. If sown late Jan. and planted out 4 x 5 in. on a raised bed about Feb. 15, it will flower early May. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

HYBRID DELPHINIUM PACIFIC GIANTS

(Vetterle-Reinelt)

Clearly the finest Giant strain. Nearly 100% double or semi-double, extra large flowered and of beautiful shades are the distinguishing points in this remarkable new race. See page 46 for complete Delphinium list and prices.

Galahad Series (New).

Described by the originator as an improvement over Giant Pacific

Clear White in purity of color, size of flowers, and general trueness of strain. The *finest white Delphinium in existence* from seed. (Originator's seed only.) Tr. pkt., \$2.00; ⅛ oz., \$4.00; ¼ oz., \$7.00; 1 oz., \$24.00.

*Blue Shades.

Our most popular strain, a mixture of the originator's Light Blue and Dark Blue Shades.

Lavender Pastel Shades.

A fine mixture of pastel lavender shades.

Violet Shades.

Deep rich violet-blue colors with many contrasting white bees.

Pastel Shades.

A very fine pastel mixture of pastel lavender and blue shades.

*Mixture.

A complete mixture of all above and many intermediate shades. A supremely fine complete mixture of Hybrid Delphinium.

Prices on above except Galahad as noted, each: Tr. pkt., \$1.00; ⅛ oz., \$2.00; ¼ oz., \$3.50; 1 oz., \$12.00.



Type of the new Giant Pacific Hybrid Delphinium (V. & R.)

*Clear White.

Excepting possibly the new Galahad Series listed above, the finest clear white Delphinium available from seed. Very large, clear, white flowers, double and semi-double set on long spikes. Forces very well.

Tr. pkt., \$1.25; ⅛ oz., \$2.50; ¼ oz., \$4.00; 1 oz., \$14.00.

PANSY BALL GIANT MIXTURE

Many growers are turning to a Dec. or Jan. sowing of Pansies for spring sales, planting them into flats about 2 in. apart. Much easier to sell a flat than to pick out plants from a frame. Our annual indoor Pansy trials prove clearly that our Ball Giant Mixture is our best all-round mixture for any purpose. Correspondence invited from growers wishing supplies of this strain reserved for early delivery next season. Tr. pkt., 40c; ½ oz., \$3.00; 1 oz., \$5.50; 4 ozs., \$20.00.



Rust-Resistant type as grown in California

RUST PROOF SNAPDRAGON ROSALIE (New)

A bronze medal winner in last season's All America trials. This is the first good deep rose rust proof variety to be offered. We had a 50-plant line of this in our last summer's outdoor trials. This enables us to recommend **Rosalie** without reservation for summer cutting. Not only did it remain clean of rust, but the color was excellent. It produced 4% rogue colors. See page 17 for further description. Tr. pkt., 50c; ⅛ oz., 85c; ⅛ oz., \$1.50; ¼ oz., \$2.75; 1 oz., \$9.00.

EARLY RUSTPROOF SNAPDRAGON DAYBREAK

During the spring of '38, we grew a bench of the regular stock of Daybreak in one of our cold houses. It rusted out completely except one plant that remained clean. The stock from it has continued to do so. A row in our outdoor trial ground the past season was nearly 100% clean alongside others that rusted out completely. We recommend this strain of light rose pink Daybreak for outside cutting as well as under glass. ½ tr. pkt., 60c; tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Modern magazine ads demonstrate the value of novelty in presentation and merchandise.

PETUNIAS

NOTE: Improved varieties and strains are steadily increasing the demand for well grown Petunias.

200,000 Seeds per Ounce

In the following 5 pages will be found listed and as accurately described as we can, the world's best Petunias.

To supply the varying demands in every section of our broad country calls for a rather long list. Thru starring (*) such as are particularly valuable and wanted most everywhere, we try to help you in making selections. If not familiar with them, we suggest carefully studying the description of the different classes. While well grown 3-4 in. pot plants of the All-Doubles, Giants, and Grandifloras are ever popular, and will always be, growing and selling in flats is becoming big business. When started early enuf and grown cool in fairly stiff soil, stock from flats is generally satisfactory, and—increases total business and profits. The Petunia business is frequently hurt by soft overgrown stock. Avoid this by keeping on the dry side or by not keeping it wet after they get going and by growing close as possible to the glass. If in pots, don't let them root thru the drainage. Much Petunia seed doesn't germinate because it isn't carefully managed. It is easily overcovered and insects frequently carry it off. Should be sown in a soil temperature of at least 60° and 10° higher will bring it thru more promptly and surely.

The All-Doubles

According to our trial ground report and all stock noted the past summer, the double percentage of these remarkable strains is being fully maintained. While a Nov. or Dec. sowing, grown cool makes the finest 4-5 in. plants, a Jan.-Feb. sowing will make good 3-4 in. stock by May. Following are best standard varieties.

We are offering exclusively, two entirely new color types in All-Doubles this season. One is irregularly blotched or colored deep rose purple and white, and the other carmine rose and white. Both are dwarf and fringed. The irregular type of coloring is the same as found in that popular variety Gaiety, except that there is more dark coloring in these two new ones. This irregular or bi-coloring effect is a decidedly more attractive and preferred one by many to the clear self colors. **Supply limited to half and trade packets, and at standard prices.** The two varieties are—

All-Double Carmine and White Striped.

All-Double Purple Rose and White.

Why do some growers germinate a lot of petunia seed that another fails with?



The All-Doubles, in addition to drawing attention because of their attractive highly fringed doubleness, are excellent bedding varieties in their own right. Free flowering, brilliant colors, compact yet strong, hardy growth, are all important bedding plant requisites.

***Pink Perfection** (World Beauty). Fine deep rose. Extra large heavily fringed flowers. The finest and most called for All-Double variety.

Loveliness. A shade lighter than Pink Perfection.

***Snowball.** The finest fringed pure white; large flowered and true to color.

Appleblossom. A particularly pleasing shade of light pink especially attractive as a pot plant.

Amaranth Red. A strong deep red.

***Gaiety.** Irregularly colored pink and white. Especially attractive color combination.

Orchid Beauty. Orchid or light lilac; heavily veined choice color.

White Glory. Large, plain edged, semi-double white.

No Purple! Only strains offered have been identical to Amaranth Red, therefore we list no Purple. We hope to offer a true double purple next season.

***Ball All-Double Mixture.** Some complaints on the colors in Victorious Mixture have induced us to make up this, a formula mixture of named All-Doubles. It consists of ½ Pink Perfection; ¼ Snowball, and ¼ various colors. Priced same as separate colors from which it is made. See Novelty List on page 2 for further description.

Price on the All-Double varieties except Victorious Mixture (below): ½ tr. pkt. (500 seeds), \$1.25; 1 tr. pkt. (1000 seeds) \$2.00; 3 tr. pkts., \$5.00. (Any combination of varieties in packets). ¼ oz., \$6.50; ½ oz., \$12.50; 1 oz., \$22.50.

Victorious Mixture. This is the standard All-Double Mixture. ½ tr. pkt. (500 seeds), \$1.00; 1 tr. pkt. (1000 seeds), \$2.00; 3 tr. pkts., \$5.00; ¼ oz., \$6.00; ½ oz., \$11.00; 1 oz., \$20.00.

PETUNIAS—Continued

Other Double Strains

***Double Perfection.** (Benary). In our trials of the past two seasons, we find this to be a duplexed, heavily fringed Giant type. 75% full double effect with a good mixture of colors. Because of a more dwarf, restricted growth than the All-Doubles, this should be used only for specimen pot plant work. Tr. pkt., \$2.00.

Double Rosy Morn (Carnation flowered). Small bright rose; not over 40% double. Should be propagated thru cuttings from selected plants. Tr. pkt. (1000 seeds), \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00.

The California Giants

The largest flowered Petunia—true Giants. Available in a uniformly and quite dwarf strain which is our well known Ball Dwarf Giants No. 1. Also in a medium dwarf and the original tall California Giants as well as in a number of excellent colors. Most widely used for 3-4 in. pots is our Dwarf Giant No. 1 strain that comes fully 90% true dwarf giant. Our No. 2 stock is nearly as good. Don't miss their value for pots. The tall Giants are of stronger growth and generally hold up well for outdoor bedding.

***No. 1—Ball Dwarf Giants.** In our trial grounds, we annually line out a row of every Dwarf Giant strain offered. We have yet to find one that equals our No. 1 Mixture for uniform dwarfness and high percentage of giant flowers. Colors largely on dark side.

$\frac{1}{2}$ tr. pkt., 75c; tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00; $\frac{1}{16}$ oz., \$7.00.

No. 2—Dwarf Giants—Ramona Strain. While not quite so uniformly fine as our No. 1 stock, this will be found a very excellent strain of Dwarf Giants.

$\frac{1}{2}$ tr. pkt., 60c; tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$2.75; $\frac{1}{16}$ oz., \$5.00.

No. 6—Dwarf Giants—Eriksson Strain. Originator's seed. Produced by a well-known Chicago pot plant grower.

Tr. pkt., \$1.25; $\frac{1}{32}$ oz., \$4.00.

No. 3—California Giants. Medium Dwarf combines its fairly dwarf habit with a fairly strong growth.

Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50; $\frac{1}{16}$ oz., \$4.50.

***California Giants No. 5 Mixture.** Supreme Florists' Strain.

A fine new tall Giant strain, outstanding for rich and unusual colors not usually found in this class; uniformly large flowered.

Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50; $\frac{1}{16}$ oz., \$4.50.

Giants in Separate Colors

Of fairly dwarf habit with the same open throat and size found in the Giant Mixtures.

***Copper Red, Dark.** Extra attractive copper crimson. A striking color. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.25.

Copper Red, Light. Rich old rose or light copper. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.25.

***German Empress.** Bluish white with dark purple throat; richly contrasting colors. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

***Prince of Wuertemberg.** Rich deep rose with dark throat. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.15; $\frac{1}{32}$ oz., \$2.20.

Princess of Wuertemberg. Light rose pink with veined dark throat. A popular light color. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.25.

Rheingold. Large clear white with yellow throat. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.15; $\frac{1}{32}$ oz., \$2.20.

Robin Hood. Dark or deep rose with darker throat and attractively ruffled edge. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.50.

***Salmon Beauty** (Marilyn). Bright salmon pink. The most attractive color in this class and comes 100% true to color. Not quite so large as a true Giant and correspondingly freer flowering. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50.

Silvery Rose. Silvery rose pink shading lighter toward throat. A pleasing shade that comes quite true to color. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50.

The Grandifloras

In many respects, a most attractive class. Medium size flowers freely produced with compact or dwarf, fairly strong growth are Grandiflora characteristics. A few varieties are comparatively weak in growth and such are noted. All are fringed or ruffled. Gen-

New and better varieties are increasing the demand for petunia seed.



Ball Dwarf Giants No. 1. Most uniformly large-flowered dwarf strain of this valuable pot plant class of Petunias.

erally valuable for bedding and largely used as pot plants. The Grandifloras are divided into three classes; the Regular Dwarf Fringed, the Dwarf Fringed, known as Dwarf Erfurts, and the Ruffled class. We are certain that our list of Grandifloras includes every worth while variety available.

Dwarf Erfurt Class—Fringed

A comparatively new type that is characterized by uniformly compact growth and beautifully fringed flowers. While not quite so strong in growth as the regular or some taller Grandifloras, the Dwarf Erfurts are ideal for bedding under fairly favorable growing conditions. All varieties make extra choice pot plants.

Ball Silver Lilac. (New). An outstanding fringed Grandiflora with Dwarf Erfurt habit—practically 100% true dwarf. The color is a lilac blue about the general color of dwarf hybrida Heavenly Blue. Comes 65-70% true to color. The uniformly dwarf habit of Ball Silver Lilac makes it particularly attractive as a pot plant. See Novelty List, page for further description. Pkts. only, 75c.

***Setting Sun.** Beautiful clear rose. Most valuable variety in this class. We supply originator's stock of Setting Sun that will not produce over 10 to 15% off types. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50.

***Colorado Sunset.** A shade lighter than Setting Sun. We are offering a supply the present season from our European grower that in our trial grounds the past season, produced but 10 to 15% off types. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50.

***Gaiety.** Irregularly marked rose pink and white. Very attractive coloring and of fairly strong growth that makes it an excellent variety for bedding. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.00.

Gottfried Michaelis. Rich amaranth red. Distinct but rather heavy color. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.30.

Pepita. Irregularly marked carmine and white. Dwarf and attractively fringed. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

***Lace Veil.** Richly fringed clear white and of excellent habit for pot plants. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50.

Dwarf Erfurt Mixture. Our own Mixture of all above varieties. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.00.

PETUNIAS—Continued

Regular Fringed Grandifloras

Dwarf, or medium strong growth and free flowering habit makes this class of Grandifloras most popular for bedding except where conditions are very unfavorable. Largely used for pot plants and to an increasing extent by those who grow Petunias in flats.

Apple Blossom. Pleasing light shell pink. Attractive as a pot plant but we find both color and growth rather weak for outdoor conditions. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

Aurora. Attractive light rose with dark veins. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

Coerulea. Large light blue, heavily veined deep blue. Nicely fringed with fairly dwarf habit. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

***Columbia.** Attractive combination of irregularly marked rose pink and white. Distinctly strong upright growth, quite unlike any other variety in this respect. Growth gets up 14" to 16" and should be planted in sheltered location or supported to avoid being blown over. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50.

Dainty Lady. Although sent out as a yellow, this is a dark cream. Attractive as a pot plant but doesn't hold up well under outdoor conditions. Quite true to color. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.75.

***Golden Jubilee.** The most attractive bright carmine rose with gold throat and heavily fringed form. Uniformly dwarf with few or no rogue colors. Particularly choice for pot plants. Tr. pkt. (originator's seed), 75c; $\frac{1}{64}$ oz., \$1.50.

Maculata. Quite large irregularly colored rose and white with attractive fringe. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

Miranda. Deep carmine scarlet with darker veined throat. Beautifully frilled with ideal dwarf habit. Choice for pot plants. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

Pink Triumph. One of the best standard clear rose pinks. Excellent color and valuable for bedding. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25.

Pride of Portland. Another standard rose pink for bedding. A shade lighter than Pink Triumph and somewhat more dwarf. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25.

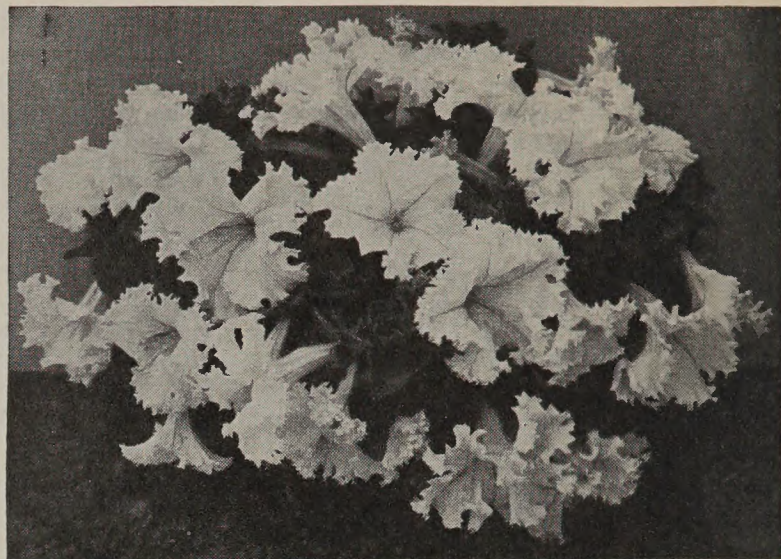
Rapture. Pleasing rose pink shaded carmine toward center with gold throat. One of the finest Grandifloras. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00.

Romany Lass. Richly fringed crimson rose. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.00.

***Royal Purple (Marine).** Rich deep velvety purple. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.40; $\frac{1}{32}$ oz., \$2.50.

***Theodosia.** Well known rose pink with gold throat. Beautifully fringed. Medium tall. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

White Beauty. Finely fringed clear white with strong growth that makes it first class for bedding. Tr. pkt., 50c; $\frac{1}{64}$ oz., 75c; $\frac{1}{32}$ oz., \$1.25.



Petunia Grandiflora Fringed Lace Veil. An extra dwarf free-flowering fringed pure white.

Balcony Queen. Velvety purple with occasional white markings that represent a rich color combination. Tr. pkt., 50c; $\frac{1}{64}$ oz., 90c; $\frac{1}{32}$ oz., \$1.60.

Brilliant Rose. Richly effective strong, bright, fairly deep rose pink. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00.

Burgundy. Heavy Burgundy or dark wine red with large contrasting white throat. Rather heavy, though attractive effect. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25.

***White Queen (Ball).** Extra large ruffled clear white larger than most Grandifloras. For either bedding or pot plants White Queen is the preferred single white Petunia. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.00; $\frac{1}{16}$ oz., \$3.75. See Novelty Page 2 for further description.

***Elk's Pride Dwarf (Ball).** About 20% more dwarf than original Elk's Pride, the difference in height being particularly marked in young plants. Same color, size and wavy flowers of the original Elk's Pride that we have dropped in favor of this newer selection. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

Blue Beauty (Blaue Schonheit). Rich velvety blue, plain edge Grandiflora. This color is brightened with an attractive rose sheen. A rather striking improvement in this color. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

Dwarf Carmine Glory. Rather dwarf habit with strong attractive carmine color. Around 20% small flowered, it's a choice pot plant. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.80.

Dwarf Pink Glory. Extra large flowered bright carmine rose. The true flower type is outstanding for color and form. One-fourth to one-third small or off types. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.65.

Giant Steel Blue. Light bluish white with dark veins. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25.

***Queen of the Market.** Deep carmine scarlet. Quite outstanding for depth and effectiveness of color. Growth moderately strong. Makes an attractive pot plant. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.15.

***White Cloud.** An effective all purpose dwarf white with nicely ruffled flowers. Particularly well liked for pot work because of compact growth. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75; $\frac{1}{16}$ oz., \$3.00.

Silver Seam (Purple Robe). Extra large flowered purple with light or silver seam around edge of petals. Comes quite true to this character and dwarf growth. Quite attractive as a pot plant but lacks enuf vigor for bedding under unfavorable conditions. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

***Snowstorm.** Quite dwarf large flowered ruffled pure white. Quite even and one of the standard whites. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00.

Fluffy Ruffles. Altho varies considerably from its extra heavily fringed type, this strain in other respects is an attractive fringed mixture, particularly because of its strong growth that gives it value for outdoor work. Medium dwarf and free flowering. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25; $\frac{1}{8}$ oz., \$3.75.

Ball Single Fringed Mixture No. 1. Extra strong growing and free flowering strain. Because of its strong growth, this is an attractive strain for mixed bedding. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25; $\frac{1}{16}$ oz., \$2.25; $\frac{1}{8}$ oz., \$4.00; $\frac{1}{4}$ oz., \$7.50.

Ball Single Fringed Mixture No. 3. Fairly dwarf, bright rose pink colors predominating. Extra free flowering for bedding. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.00; $\frac{1}{16}$ oz., \$1.75; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00.

Ruffled Grandifloras

This class is distinguished by greater size and somewhat stronger growth than either of the above fringed classes. Some of the most popular bedding and pot plant varieties will be found under this heading.

The new Petunia Glow will be a standard kind for a long time.

PETUNIAS—Continued

The Balconies

Because of their strong, rather spreading growth and fairly large flowers this class will grow and flower freely outdoors where summer conditions are most trying. With a few exceptions that are noted, the Balconies are fairly tall, or strong where a strong growth is necessary or where conditions are trying for the dwarf Hybridas, the stronger Balconies are suggested. Their tendency to make a sprawling growth gives them value for porch or window boxes.

***Black Prince.** Rich velvety crimson-red with true Balcony habit. Comes practically 100% true to color. The finest variety where this color can be used. Tr. pkt., 35c; $\frac{1}{16}$ oz., 60c; $\frac{1}{8}$ oz., \$1.00.

Carmin King. Rich coppery rose with dark throat of medium dwarf habit. Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.25.

***Blue Star.** Quite uniformly starred white on dark blue. Fairly compact in growth and effectively used for bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.15.

Royal Purple. Bright royal purple shade with typical Balcony habit. Tr. pkt., 25c; $\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.50.

Venosa. Rich lilac rose with dark throat. Medium dwarf and effective for bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Blue. Tr. pkt., 35c; $\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.60.

Cornflower Blue. A mid blue shade. Tr. pkt., 35c; $\frac{1}{8}$ oz., 80c; $\frac{1}{4}$ oz., \$1.50.

White, Crimson, Rose, Mixture.

Each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$2.90.

Dwarf Hybridas

Also sometimes referred to as "Nana Compacta" because of their uniformly dwarf compact growth. This habit makes the Dwarf Hybridas the most popular class for bedding, growing in flats or pots and for combinations. Of strong enuf growth to flourish under average summer conditions. As a class they come quite generally true to color, tho a few breaks will occur in any seed grown plants.

***Admiral.** Most attractive of all the dwarf blue bedding petunias. The flowers have a ruffled edge and can be classed as medium size Grandifloras. Ideal for bedding or pots. We use only the German originator's stock and are glad to report a supply on the way as this is written. Tr. pkt., 75c; $\frac{1}{32}$ oz., \$1.75; $\frac{1}{16}$ oz., \$3.25; $\frac{1}{8}$ oz., \$6.00.

Alderman. Clear deep violet blue. Medium dwarf and excellent for bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Blue Ball. Very uniformly dwarf violet blue. A typical Nana Compacta in habit and practically 100% true in color and habit, making it especially wanted by growers of petunias in flats. Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.50.

***Celestial Rose Improved.** A selection by the European originator of Celestial Rose that clearly improves the original stock in size, uniformly nice rounded habit and slightly in color that is deeper. In our trial ground line of it alongside regular Celestial Rose we easily decided that the Improved strain was well worth the difference in cost. We are glad to say our seed supply is assured. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$10.00.

***Celestial Rose.** The most popular deep rose for bedding because of its bright color and uniformly dwarf habit. Introduced by us to the American trade in 1933, it immediately became the most popular variety in this class. A personal inspection of our 1940 supply gives us confidence that the popular habit of Celestial Rose is being maintained. Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00; 2 ozs., \$7.00.

The All Dbls. are valuable for summer cutting. Don't overlook this.

Cream Star (New—All American Silver Medal Winner). A soft creamy white; flowers bluntly star shaped prolifically produced. Good uniformly compact habit. Tr. pkts. only 50c.

Blue Bedder. Fairly deep blue shaded violet, medium dwarf. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Blue Bird. Well liked deep velvety blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Cockatoo. Violet blue irregularly marked and starred white. Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.25.

Commander. Crimson with white star. An excellent dwarf starred variety but like all in this class, a small percentage will sometimes come all crimson or largely white, but it is generally well liked. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$10.00.

Dwarf General Dodds. The strong crimson red of the original General Dodds is now available in this uniformly dwarf variety. Quite effective for bedding or pots where this color can be used. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Dwarf Senator. Extra dwarf well rounded habit, fairly dark blue flowers with white throat. Popular for small pots as well as for bedding where conditions are favorable. Tr. pkt., 50c.

Elf. Rather light or blush pink with uniformly dwarf habit. An original and desirable variety where a light effect is wanted. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.00.

***Glow.** Described under "Items of Special Value" and pictured in natural color on front cover. While we have a strong supply of seed, we advise early ordering for the supply is generally not heavy. See Novelty List Page 2 for further description. Tr. pkt., 75c; $\frac{1}{32}$ oz., \$2.50; $\frac{1}{16}$ oz., \$4.50; $\frac{1}{8}$ oz., \$8.00.

***Heavenly Blue.** Medium to light silvery blue. A standard choice bedding variety that comes quite true to color. Tr. pkt., 50c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

Howard's Star Dwarf. More restricted and not so strong in growth as the original stock. Choice, but requires fairly favorable conditions to do well. Tr. pkt. only, 35c.

***King Henry.** Well described by calling it a dwarf Black Prince. The rich velvety red and uniformly dwarf habit of King Henry give it outstanding value. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25; $\frac{1}{16}$ oz., \$2.25; $\frac{1}{8}$ oz., \$4.00.

Lady Bird. Deep rose shaded scarlet with a uniformly dwarf rounded growth gives Lady Bird particular value for bedding or small pot plant work as well as flat growing. Tr. pkt., 75c; $\frac{1}{32}$ oz., \$2.50.

Little Blue Star. Clear fairly dark violet blue with white star and a nicely rounded dwarf growth. The irregular coloring of the starred type is almost entirely overcome in Little Blue Star, leaving it particularly attractive for bedding, flats or small pots. Tr. pkts., only 35c.

***Norma.** Violet blue with white star. Of dwarf habit and choice for bedding or small pots. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

***Rose of Heaven.** A well known standard rose pink for bedding. Differs from Celestial Rose principally in being not quite so uniformly dwarf. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

***Rose Queen Improved.** Deep rose, with a fairly uniform and dwarf habit. Tr. pkt., 50c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

Rosy Morn. Fairly deep rose with large white throat. A standard bedding variety. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Rosy Morn Improved. Differs from the original in that the rose coloring is stronger and deeper and habit some stronger. Quite uniform and distinct in every way. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

PETUNIAS—Continued

Royal Gem. Extra dwarf Burgundy crimson with light throat. Small but correspondingly free flowering. Attractive for bedding. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.00.

Salmon Supreme. Dwarf light salmon rose. An attractive new and rather striking color in this class. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.00; $\frac{1}{16}$ oz., \$1.85.

***Senator.** Violet blue with white throat, quite dwarf. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***Snowbedder.** We find this new white uniformly dwarf habit and pure white. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

***Snow Queen.** Fairly dwarf, free flowering pure white. Our standard bedding variety in this color. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.50.

Sunrise. Compact spreading type of growth with deep rose lightly fringed flowers. Tr. pkt., 75c; $\frac{1}{16}$ oz., \$1.50.

***Twinkles.** Small flowered medium light rose starred white, and uniformly dwarf. Comes fairly true to this color type. The pink color in the new variety Adora will be found some deeper. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

***Velvet Ball.** Uniformly compact, well rounded growth, with large velvety crimson flowers similar to King Henry, but more round in growth. Tr. pkt., 75c; $\frac{1}{32}$ oz., \$1.35; $\frac{1}{16}$ oz., \$2.50.

***White Perfection (New).** A very excellent dwarf compact pure white. Very true. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

***Violacea.** Fairly dwarf attractive violet blue. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Dwarf Hybrida Formula Mixed. Mixed from above named varieties. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

The Regular or Tall Hybridas

This strong growing class makes fairly tall rather heavy rambling growth, although not as much so as the typical Balconies. Most varieties are as large or larger flowered than the Dwarf Hybridas. This low priced strong growing type is popular because it is easily grown under unfavorable conditions. Although lacking in compact habit, it is largely used for bedding as well as combinations in porch boxes.

Blue Bee. Bright violet blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Carmen Sylva. Well known violet with white throat. Medium tall. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Countess of Ellsmere. Rose with white throat. A strong grower, but small flowered. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Flaming Velvet. Rich velvety red. Comes quite true to this color, though a few crimson red rogues will appear. We prefer the Balcony Black Prince for this color. Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00.

General Dodds. The ever popular strong rose red. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.50.

Hollywood Star. Rather attractive rose with amber throat and of distinct star formation but with rather rambling growth. All America silver medal winner. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

***Howard's Star Improved.** Medium tall velvety crimson with white star. Highly attractive and popular for bedding. Our stock of this will come quite true to this starred type. Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00.

Inimitable. Carmine-rose striped white. Small but very free flowering variety. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.50.

Lord Courtenay (Golden Rose). Very attractive variety. Deep rose with golden throat. We consider this most attractively colored and largest flowered Hybrida, valuable for any purpose. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.85.

***Topaz Rose.** Fairly deep brilliant rose with golden throat. Growth not quite so tall as the typical Hybrida. We consider it most valuable variety in this group. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.75.

White. The best clear white in this class. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

Exquisite Mixture. A formula mixture with the choice large flowered varieties predominating. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Various Types

Martha Washington. Of dwarf nicely rounded growth making it ideal for edging or bedding as well as of nice size. Slightly ruffled light blush pink with reddish veined throat. An excellent and distinct type. Tr. pkt., 50c; $\frac{1}{32}$ oz., 90c.

Betsy Ross (New). Of same extra compact habit and flower type as Martha Washington, but color a deep crimson red. Quite true and nice. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00.

Brilliant Rose Gem. Quite dwarf, 6 to 8 inches. Well rounded growth with small fairly deep rose pink flowers. We find this type of growth rather weak for our summer conditions. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.

Pink Gem. Identical with Brilliant Rose Gem, except color which is quite light rose pink. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c.

Parviflora. Of dwarf creeping habit with quite small inconspicuous flowers. Of use only as a cover plant for cemetery or rock gardens. It does well under dry weather conditions. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c.

Diener's Varieties

We are assured by the late Richard Diener's estate that his varieties of Petunias will be maintained. We supply original Diener's packets on all the following varieties.

No. 1—Ruffled Monster Pink. Tr. pkt., 50c.

No. 2—Ruffled Giant Flesh-Pink. With deep center. Tr. pkt., 50c.

No. 5—Ruffled Monster Red. Tr. pkt., 50c.

No. 8—Ruffled Monsters, Mixed. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$2.50.

No. 11—Ruffled Monsters, Blue. Semi-dwarf. Tr. pkt., 25c.

No. 19—Giant Pink Glory. Improved Pink Glory. Tr. pkt., 50c.

No. 20—Mauve Ruffled Monster Type. Tr. pkt., 50c.

No. 22—Rose Color. Improved Rosy Morn. Tr. pkt., 25c.

No. 47—Jumbo Mixture. A select Giant Mixture. Tr. pkt., \$1.00.



Ball Silver Lilac (New) Note fine extra compact habit.

Where summers are very hot and long, the strong regular Hybridas are fine.

GOOD ASTERS

The past season has produced the usual number of failures and profitable Aster crops. As usual good flowers have paid generally quite well; problem is how to escape rot and produce such flowers. No question about the superiority of rot resistant strains, for they are never sent out as such unless they stand up close to 100% in thoroly sick soil that will completely destroy any regular strain. But—when exposed to checks in growth, excessively wet or dry soil or forms of rot they are not bred to resist, the rot proof strains will frequently go down, and when the same location is used the third season, the accumulation of Aster rot is usually strong enuf to overcome them. Some growers find it necessary to change locations annually, but the cause of most failures, we believe, is weakening their resistance thru a check to growth in one form or another. A big check is too early sowing and transplanting several times. That hurts, we believe, not only thru the wilt or check they get, but thru not growing along freely because of too low early spring temperatures. A temperature of 55-60 is necessary to maintain free growth. Careless watering thru which the perhaps overcrowded seedlings remain wet overnight in a close atmosphere is thoroly bad. We know that the early start and transplanting has a weakening effect thru the fact that when sown direct—where they are to flower and not transplanted, they generally come thru clean, but this, of course, means a late start and short stems, for they tend to flower when their season comes to do so regardless of growth they haven't had time to make. Our compromise on these two plans is to sow in a well prepared bed of sterilized soil in the greenhouse, a month before they can be transplanted. In new clean soil this generally gives good results. The "yellows" is a virulent disease that

yellows and draws the foliage and growth. It can only be avoided by growing in a tight cloth house that will bar the leaf hopper that alone is responsible for its spread. In conclusion, if you are planning to grow acres of Asters, remember that the more you grow of any crop, the less returns you will average for it, so, for your own sake as well as for the industry, grow first class stock and don't overdo.

Your Aster Seed

Most of the world's Aster seed is produced in California in such fields as pictured below. Climatic conditions there develop and mature it perfectly. We thoroly go over these fields when in flower and check varieties and strains. The new crop is usually received by us in November and is at once tested for germination after which it is ready for you.

Rot Resistant Strains

These strains are developed thru the principle of "survival of the fittest." Extensive single plant selection work is carried out in their production. This not only leaves them resistant to the ordinary stem rot, but when other desirable points are kept in mind, single plant selection work tends to improve types as well. When Asters fail to be resistant for you it is because of a variety of rot they are not bred to resist or, unfavorable growing conditions that greatly weaken them—or both. We are as certain as we can be that these strains are superior. For this reason we do not list regular varieties, except such as are not available in resistant form.



All our aster seed is grown for us under the ideal climatic conditions of California where strong sun and absence of rain through the growing season insure perfectly matured seed.

Greenhouse asters are safest on raised beds.

12 Best Varieties

(Approximately 12,000 seeds per oz.)

This list is based not only on our experience, but on the demand from all sections—the heaviest sellers. For these reasons we don't hesitate recommending this as a preferred and safe list to consider, tho we realize that it can't be 100% for all sections and demands. Dates given are for flowering in our latitude and will vary. No special varieties are needed for flowering under cloth. All are equally improved in size, length of stem, finish and freedom from "yellows" when grown under the protection of a tight cloth house.

Early Giant Light Blue. A very attractive early flowering wilt resistant California Giant type. Color is a clear, rich light blue. Good stems and partly non lateral. Sept. 15 to 20. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

American Beauty Silvery Rose. Pleasing light rose pink somewhat deeper than our Ball Phlox Pink, color deepening some with age of flowers. True American Beauty type and borne on long non lateral stems. Sept. 15 to 20.

Ball Deep Rose. The heaviest selling variety on our list. Attractively bright shade of fairly deep rose, incurved and of medium size. Extra long, non-lateral stems and generally highly resistant. One of our finest productions. Aug. 25 to Sept. 5.

Ball Deep Purple. Identical in every way with our Ball Deep Rose except in color which is a bright deep purple. Much brighter and longer stemmed than Royal Purple, also larger flowered. Both are cut out before the mid-season crop gets in. Aug. 25 to Sept. 5.

Ball White Late. Typical American Branching type and habit. Long stemmed, large and fully double, though not quite so full petaled as our Ball Early that it follows in flowering season. Generally accepted as the best strain of Late Branching White. Sept. 10 to 15.

Ball White Early. A new reselected strain of this favorite early white. Flowers are fully double, but few showing centers even when fully open. Highly resistant and a clear white. Sept. 5 to 10.

Ball Phlox Pink. Fairly light rose pink, the color deepening with full development. Generally well liked for cutting, with perfect American Branching habit. Sept. 5 to 10.

Branching Azure Blue. Clear mid or Lavender blue. An attractive market color that sells anywhere. Long stemmed and highly resistant with us. Sept. 15 to 20.

Royal Azure Blue. Same color as Branching Azure Blue. Of true Branching habit. Sept. 5 to 10.

Royal Shell Pink. Bright shade of Semple or shell pink with extra large flowers for this class. Medium long stemmed. For both size and color an excellent commercial variety. Sept. 1 to 5.

Queen of the Market White. The earliest worth while cut flower white. Medium size and good Branching habit. We find it a good variety for indoor growing if planted in clean soil, for under our conditions none of the Queen of the Markets are as resistant as the stronger and later classes. July 15 to 20.

Queen of the Market Azure Blue. This is lighter and clearly more desirable cut flower color than Mid Blue.

12 Best Mixture. Specially selected mixture of above varieties; provides a succession of flowers from July to late September.



Well Grown Asters Are Always Profitable

be used. The two best varieties will be found among our 12 Best. July 10 to 25.

Crimson. Brighter than most crimson, making it valuable for cutting.

Dark Blue. A rich bright shade of purple; highly resistant.

Flesh-Pink. Fairly light rose-pink; deepening as it matures.

***Mid-Blue.** A good early mid-blue.

Scarlet. Rather heavy for cutting.

ROYALS. This class follows Queen of the Market, and is a very popular and much used one because of excellent size and stems for the early flowering date that, however, varies some. Because of the value of this class, most kinds will be found among our 12 Best. Aug. 20 to Sept. 5.

Purple. Bright purple; prefer Ball Deep Purple.

***White.** Excellent fairly early commercial white.

AMERICAN COMETS. We group the Cregos and Comets under this heading, because they are all of the same general type. All are attractive American Asters, producing more or less the same interlaced or fluffy petal effect. A highly attractive type, but does not stand shipping as well as the plain or incurved type.

Comet, Blush Pink. Light or blush-pink. Valuable for earliness and very free flowering habit. Fairly long stem. Aug. 25.

Comet, Cattleya. Very pleasing orchid-lavender. Early Sept.

Comet, Light Blue. Azure-blue; good for cut flowers. Early Sept.

Comet, Rose. Fine large flowers; color a desirable deep rose shade. Early Sept.

Comet, White. Fine large white; some earlier flowering than others in this class. Early Sept.

Crego, Azure-Blue. A fine clear blue for cutting. Cregos, being long-stemmed and large-flowered, are generally preferred in this group. Sept. 10 to 15.

***Crego, Blue Flame.** Fairly deep bright blue. Highly resistant and extra for stem. Sept. 5 to 10.

***Crego Deep Rose.** Fairly deep rose; a fine market variety. Extra large flowered. Sept. 10 to 15.

Crego, Enchantress. Attractive light rose tinged salmon; valuable addition to this class. Good size flower and substance. Mid. Sept.

Crego, Orchid. Delightful orchid-lavender shade. Long-stemmed and large flowered, but stem not heavy. Highly resistant. Sept. 5 to 10.

Crego, Peach Blossom. Delicate light rose deepening to bright pink. Attractive. Sept. 10 to 15.

Crego, Shell-Pink. Bright clear pink. Sept. 10 to 15.

***Crego, White.** Pure white; fine. Sept. 5 to 10.

Ostrich Feather, Peach Blossom. Delicate rose deepening to bright pink. Excellent market variety. Sept. 10 to 15.

AMERICAN BRANCHING. A term generally used to cover a number of midseason classes or strains of various producers. All are of spreading or branching habit, and for best results the individual branches should be disbudded. The variety Ball

Prices on all Rot-Resistant strains **Except Where Noted:**
Tr. pkt. 30c; ¼ oz., 50c; 1 oz., \$1.75; 4 ozs., \$6.00.

Classified List of Standard Varieties

(12 Best Not Included)

QUEEN OF THE MARKET. Most popular early flowering class; of moderately strong growth, stem, and size. Fairly resistant and much used for July flowering under glass—but fresh soil should

The average returns from year to year on Asters is what counts.

White Late in the 12 Best, is a typical American Branching Aster, Royals and Queen of the Markets are of the same branching habit, but September flowering kinds only are generally known as the American Branching.

***Rosalie.** Outstanding for its completely double flower type; shows no center under any circumstances. Color is a good deep rose, and flowering date about Sept. 10 to 15. Typical American Branching habit.

Deep Rose. Long-stemmed, large-flowered deep rose; excellent for market. Sept. 15 to 20.

Purple. Rich purple, fine stem and highly resistant. Sept. 10.

Semple Pink (Ball). Choice shell-pink. Sept. 10 to 15.

***White.** True branching type; excellent for cutting. Sept. 10 to 15.

KING. Attractively pointed or quilled petals give this class real distinction. Flowers are harder than most classes or types, and for this reason they do not spot or bruise so easily. The Kings are largely used for shipping from California to Eastern markets.

Crimson. Bright crimson, strictly upright habit. Sept. 10 to 15.

Peach Blossom. Delicate rose deepening to bright pink. Upright growth. Sept. 10 to 15.

AMERICAN BEAUTY. A valuable and popular class because of late flowering, and large, long-stemmed, slightly incurved flowers. For northern locations the flowering dates should be noted to escape early frosts. However, most Beauties are generally satisfactory, even in our northern border states.

***Azure Fairy.** Trifle darker than Branching Azure; large flowered and excellent for cutting. Sept. 20 to 25.

Crimson. Long-stemmed, good crimson color. Sept. 15 to 20.

Deep Rose. Finest rich deep rose. Sept. 15 to 20.

Purple. Long-stemmed large purple. Sept. 15 to 20.

Purple Prince. Bright marine purple. An excellent variety. Sept. 15 to 20.

Shell-Pink (September Beauty). Delicate pink, trifle lighter than Semple. Fair size, long stem. Sept. 25 to Oct. 1.

***White.** Long-stemmed excellent white. Sept. 20 to 25.

CALIFORNIA GIANTS. An extra large interlaced attractive type of flower for cutting, but not so suitable for long shipping. Extra long strictly non-lateral stems add to their value. We are pleased to add another color to wilt-resistant list of this type—the new Rose Marie. Early Giant Light Blue also in this class, will be found among the 12 Best.

Dark Purple. Rich purple and highly resistant. Sept. 25 to Oct. 1. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

Early Giant Peach Blossom. Same as Early Giant Light Blue featured in 12 best list, but a pleasing light pink. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

***Early Giant Rose Marie.** Has the same early flowering habit, size and non lateral habit of Early Giant Light Blue sent out last season. We find it exceptionally resistant and of a pleasing shade of medium rose pink. For further description see novelty list on page 2. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.50.

PRICES on ANY OF THE ABOVE Resistant Asters Except Where Noted: Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.75.

Above Resistant Strains in Mixture

Queen of the Market Mixture. **Royal Mixture.**

Crego Mixture. **King Mixture.**

American Branching Mixture. **American Beauty Mixture.**

Prices on above MIXTURES ONLY:

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

All Varieties Mixed. This is a mixture of all the above double varieties including the 12 Best Rot-Resistant varieties. Largely used for growing plants to sell from flats to home gardeners. This resistant mixture should be used because of reduced loss in young plants from rotting. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00; 1 lb., \$12.00; 4 ozs. at lb. rate.

SINGLE VARIETIES (Ball). In addition to the Single Southcote Beauty type, that is not resistant to rot, we offer a number of colors and mixture of a strong growing, single branching type. This strain has been developed by us and will be found exceptionally rot resistant. The flowers are freely produced, extra long-stemmed, and attractive for any cut flower work. Mid-Sept.

***Deep Rose.** Strong deep rose-pink. Excellent.

Deep Salmon-Rose. As named; strong bright color.

***Light Blue.** Medium shade of blue.

White. Clear white; extra free growth.

Mixed. The four colors mixed.

Prices on Single Asters: Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.75.

Miscellaneous Resistant Asters

Aster Giant Harmony Mixture (New). We were pleasantly surprised last summer to happen onto a trial of this New Anemone Strain, similar in flower type to old favorite Aurora Golden Sheaf; it comes in a fairly complete mixture of colors, and seemed wilt resistant, altho it is not listed as such. Mid Season and fine for shipping because of hard flowers. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.50.

Aurora Golden Sheaf Reselected. (New-Ball.) A new Aurora type selection developed by us. Color considerably deeper and brighter, and flowers a good deal larger. Throws a few off types. Trade packets only. 50c.

***Aurora Golden Sheaf.** Fully doubled anemone type; center cushion petals quilled, outer petals broad and flat. Creamy yellow, large, long stemmed, highly resistant, valuable for market. Sept. 15 to 20. Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.75.

***Heart of France.** Distinctive scarlet color; approaches American Branching in type. Highly resistant. Sept. 10 to 15. Tr. pkt. 30c; ¼ oz., 50c; 1 oz., \$1.75.

Regular American Asters

Not Rot-Resistant

We are very certain that the rot-resistant strains are well worth their slightly added cost. For this reason we no longer offer regular varieties that are available in resistant form.

Imbricated Pompons. Becoming increasingly popular for cut-flower use. Favorable growing conditions, including clean soil, are necessary for this class. Will not draw up long-stemmed without some shelter from full sun. We space them 8 x 8 inches and use wire and string support.

	Tr. pkt.	¼ oz.	1 oz.
*Rose	\$0.35	\$0.65	\$2.25
Light blue .....	.35	.65	2.25
*Light blue with white center .....	.35	.65	2.25
Crimson with white center.....	.35	.65	2.25
White .....	.35	.65	2.25
Mixture of all colors.....	.25	.50	1.75
Early Wonder. Extra Early Comet type.			
Mixture .....	.25	.40	1.40
Queen of the Market			
Dark Lavender .....	.20	.30	1.00
*Deep Rose .....	.20	.30	1.00

Single Southcote Beauty. This class is much used for bedding; for cut-flowers we recommend our own strain of Singles.

	Tr. pkt.	¼ oz.	1 oz.
Finest Mixed .....	.20	.30	1.00
California Giants. Large curled and interlaced flower type.			
Fully double. Late Sept.			
*Deep rose .....	.35	.65	2.25
Peach Blossom .....	.35	.65	2.25
*White .....	.35	.65	2.25
Mixed .....	.25	.50	1.75

Sunshine. Single with small crested center.

	Tr. pkt.	¼ oz.	1 oz.
Mixed .....	.25	.40	1.25
Giant California Sunshine. Large flowered anemone of value for cutting but not a good shipping type.			
*Lavender .....	.35	.90	3.00
Rose .....	.35	.90	3.00
Shell-Pink .....	.35	.90	3.00
White .....	.35	.90	3.00
Mixed .....	.30	.60	2.25
* Ball White. Fine White Aster....	.30	.50	1.75

Boltze's Dwarf Bonquet. Mixed

Fine for pot plants..... 30 .50 1.75

***Super Giant El Monte.** Extra large crimson-rose. Non-lateral 35 .75 2.50

***Super Giant Los Angeles.** Soft light shell-pink. Extra large and fully double..... 35 .75 2.50

For Hardy Asters, see Perennial List

Cause of most rotting out in asters is checking or weakening growth, especially in early stage.

FLORISTS' ZINNIAS

Wherever Summers Are Warm Zinnias Have Florist Value

If Zinnia seed is sown in cold wet soil it will rot, no matter how strong the germ is. From start to finish, they enjoy a fair degree of steady heat. In sowing for outdoor cutting, don't sow too early. An early May start planted out a month later will grow freer and produce better than if sown a month earlier and allowed to harden some which usually happens when started early. A very good plan is to sow directly in the open as soon as the ground gets well warmed, thin out seedlings soon as up. This not only reduces labor but the unchecked seedlings grow along freer. In our latitude, this sowing can safely be made early in June. We sow out our trials June 15th and get them in full flower before frost, usually around Aug. 15 to Sept. 1. The Lilliputs and Giants are generally the most valuable classes for cutting for they represent the two extremes in size. The Lilliputs or Pompons are especially choice in most any work; out in the open their growth stays rather compact making them nice for bedding. To draw the stems, grow in a cloth house or in a lightly shaded greenhouse in which they do particularly well.

The development of Zinnias from small coarse singles to the beautiful colors and full double flowers of today has been a long drawnout job. All of their past has not been bred out of them, and will not be for a long time; but much single flowering is due to wrong culture. A plant hardened in a small pot usually produces a small flower with perhaps a single row of petals; the same plant set out in enriched soil and watered when dry will produce perfect double flowers. Check in growth frequently explains poor results that are wrongly laid to the seed grower. The choicest varieties and such as are most called for are indicated by an *.

DAHLIA-FLOWERED GIANTS (2500 seeds per oz.). The center petals of this class tend to incurve, giving the flower a somewhat deeper and fuller effect than the California Giants. While this character is not a fixed one, it does predominate, making the Dahlia-Flowered the generally preferred class of Giants.

***Canary Bird.** A bright clear yellow.

***Crimson Monarch.** Large crimson-red.

***Dream.** Fine deep lavender.

Eldorado. Attractive salmon-apricot shades.

***Exquisite.** Fairly deep rose; valuable for cutting.

***Golden Dawn.** Golden yellow.

***Golden State.** Rich orange-yellow, deeper center.

Illumination. Quite deep rose-pink; valuable.

Meteor. Clear deep amaranth-rose.

Old Rose. Shades of old rose.

Oriole. Orange and gold; excellent.

Polar Bear. Large white.

Purple Prince. Large deep purple.

***Scarlet Flame.** Well named bright deep scarlet.

Zinnias, besides their cutting value, add a brightening effect to your grounds.



Zinnia "Fantasy" is a really attractive variation as this cut shows.

Prices, Separate Colors: Each, tr. pkt., 25c; ¼ oz., 35c; ½ oz., 60c; 1 oz., \$1.00; 1 lb., \$12.00.

SPECIAL OFFER: One trade packet each of above 14 varieties for \$2.75.

One trade packet each of *any ten* above varieties for \$2.00.

Indian Summer Mixture. An unusual and attractive mixture of the "Indian Summer" shades in both Dahlia-Flowered & Giant Mammoth Classes with bright red, yellow, and orange shades predominating. Tr. pkt., 25c; ¼ oz., 35c; ½ oz., 60c; 1 oz., \$1.00.

Gold Medal Mixed. Best complete mixture of all colors in Giants or Dahlia-Flowered class. Tr. pkt., 25c; ¼ oz., 35c; ½ oz., 60c; 1 oz., \$1.00; 1 lb., \$12.00.

GIANT MAMMOTH. (2500 seeds per oz.). Also known as "California Giants." Fully as large as the Dahlia-flowered type but with petals imbricated or laid back one over the other, giving the flower a flatter effect. Neither of the Giant classes comes entirely true to the characters that distinguish them.

Brightness. Shades of clear pink.

***Cherry Queen.** (Cerise Queen). Bright orange-cerise; attractive color.

***Daffodil Improved.** Bright canary-yellow.

Golden Queen. Bright intense yellow.

Grenadier. Bright dark red; prefer Crimson Monarch for uniformity.

Lavender Queen. Bright rosy lavender.

***Miss Wilmott.** Medium light soft pink.

***Orange King.** Similar in color to Ball Orange Calendula.

FLORISTS' ZINNIAS (Continued)

Pink Profusion. Shades of soft pink.

Purity. A very good white.

Rose Queen. Deep intense rose; excellent.

Scarlet Queen. Glowing bright scarlet.

Violet Queen. Deep purple.

Prices, Separate Colors, Each: Tr. pkt., 25c; ¼ oz., 35c; ½ oz., 60c; 1 oz., \$1.00; 1 lb., \$11.00.

Special Offer: One trade packet each of the above 13 varieties for \$2.55.

Mixture of all California Giant colors. Tr. pkt., 15c; ¼ oz., 30c; ½ oz., 50c; 1 oz., 85c; 1 lb., \$10.00.

PUMILA TYPE. Sometimes referred to as "Cut and Come Again"; why, we don't know. This class is midway in size between the Giants and Lilliputs. Very nice for bedding or cutting but the demand for the extremes in size predominates.

Canary-Yellow. As named.

Fire Ball. Very bright scarlet.

***Salmon Rose.** Extra choice color for cut flowers.

Golden Orange. As named.

Each, Separate Colors: Tr. pkt., 15c; 1 oz., 60c.

Mixture, all colors: Tr. pkt. 15c; 1 oz., 50c.

COLOSSAL OR NEW GIANTS. This class is so clearly inferior to either of the Giant classes that we list it only in **Mixture**. Tr. pkt., 15c; 1 oz., 60c.

LILLIPUT OR POMPONS (4300 seeds per ounce). Flowers about the size of a large button type of Pompon Mum. The neat size and shape of the flowers makes this class effective for summer cut flower work, particularly when stems are lengthened under cloth or greenhouse protection. In the open, they usually get up 12-18 in. and are effectively used for bedding.

*Canary Gem.	Pink Gem.	*Salmon Gem.
*Crimson Gem.	Purple Gem.	Scarlet Gem.
*Golden Gem.	Rosebud. Clear	*Valencia. Attractive burnt-orange.
*Lilac Gem. Clear	deep rose-pink.	White Gem.
even Lavender.		

Each, separate colors: Tr. pkt., 15c; ¼ oz., 30c; ½ oz., 50c; 1 oz., 85c; 1 lb., \$9.00. (Combination of varieties to make up pound at lb. rate.)

Mixed, All Colors: Tr. pkt., 15c; ½ oz., 40c; 1 oz., 70c.

Special Offer: Tr. pkt. of each of the 11 Lilliput varieties for \$1.35.

FANTASY TYPES. Artistically curled and interlaced petals combined with fair stem and flower size are giving this class increasing popularity for cutting. We are pleased to offer several new colors in the Fantasy type this season; all were found quite true to color and type in our trials.

***Rosalie** (All-America Winner). Bright intense rose with same informally curled petals as Star Dust; a good even color and long-stemmed for cutting. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

***Wild Fire.** (New). We feel certain that this bright attractive scarlet addition to the Fantasy group will be well received. Our trials of this this season showed it unusually true both as to type and color. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

***Orange Lady.** (All-America Winner). A rich shade of deep bright orange; equal in habit, stem length, and uniformity in type to the other Fantasies. A worth-while addition to this class. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

***Star Dust.** Rich deep golden yellow with typically curled petals; very attractive. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Fantasy Mixed. Attractive and very popular mixture of the

Of special interest for cutting are the Lilliput and Fantasy class of zinnias.



Giant Dahlia-Flowered Zinnia

above with other intermediate shades. Fine for cutting. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

PICOTEE DELIGHT TYPE. A rather unusual answer to requests for something new and different in Zinnias. Their odd bi-color petal effects as well as the curled petals and fairly tall growth make them useful for cutting.

Salmon-Rose. Attractively shaded light to dark salmon-pink. Tr. pkt., 30c; ¼ oz., 45c; 1 oz., \$1.50.

Mixture of colors in this class. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

CROWN O' GOLD TYPE. A distinctive flower type, base of each petal shaded buff or yellow while carrying out the original flower color to tip.

Pastel Tints. (Super Crown O'Gold). Contains a wide range of strictly pastel colors attractively variegated. Unusually large flowered and valuable for cut flower purposes. Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.85.

VARIOUS TYPES.

Gracillima (Red Riding Hood). Quite small and free flowering bright crimson. Ideal for bedding, being quite true to dwarf even habit and showy color. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., 75c.

***Haageana Double Hybrids.** An especially valuable class for bedding. Extra compact and literally covered with small mahogany flowers attractively variegated gold and orange. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Scabious-Flowered. Fairly tall and long-stemmed type with flowers resembling the Scabiosa; fairly true to type. Mixed colors. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Gaillardia-Flowered or Navajo. Medium large flowers in attractive two-tone combination of rose, bronze, yellow, and orange. Fairly long stems about like Pumilas; fine for cutting. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

Cupid Type Mixture. Dwarf and small flowered type valuable for borders and rock gardens; fairly true to type. Mixed colors. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Zinnia Linearis. Compact (6-8 in.) early flowering habit with single bright orange flowers. Choice for bedding where summers are moderate. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

MARIGOLDS

Do you realize that, due to numerous and substantial improvements in Marigolds, they are becoming annually more valuable? For cutting, for bedding, or in the form of small pot plants for combinations, their warm attractive coloring adds a note of cheer that this sorry world sadly needs. And nearly all classes are easily flowered in the greenhouse. An early August sowing of any Giant type grown in a raised bed and in a Carnation house is flowered at Xmas. And a January or February sowing can be grown into attractive spring cutting material. Odorless varieties have been developed for those who don't like their pungent odor. The varieties Gold and Crown of Gold are entirely free of any odor. The Giant African varieties known as "All Double" are popular for cutting but of greater size are the Sunset Giants, the largest flowering class available: 20-25% usually come single, balance real Giants. In our forcing trials of All Doubles and Sunsets the past winter, they were tried with two spacings: 10 x 10 that averaged 7 flowers to a plant and 4 x 5 that were carried up single stem—one to a plant. In centering all the plant's energy to one stem, they not only flowered about 10 days earlier than the lot that flowered more freely, but the flowers averaged larger. A shallow or raised bed should be preferred for any variety or season.

Giant African Class

(10,000 seeds per ounce)

Large Double Flowers, long-stemmed and fine for Cutting

FISTULOSA. The "quilled" or tubular petal kinds.

***All-Double Orange.** Produce 85-90% double, the balance semi-, but not quite so large as Prince of Orange. This elimination of singles makes them a superior strain for cutting. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.

***All-Double Lemon.** Same trueness to double type as All Double Orange. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.

All-Double Mixture. Mixture of above All-Double varieties. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35; 4 ozs., \$4.00.

Prince of Orange. Produce fine large specimen flowers; about 60% double. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.

Lemon Queen Improved Strain. Bright lemon; same habit as Prince of Orange. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.

Golden Emblem. Bright gold; midway between orange and lemon; fairly true. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

CARNATION FLOWERED. Imbricated or overlapped petals. **TALL.** Long-stemmed and valued for cut flowers.

***Guinea Gold.** Attractive deep golden orange flowers, 2-3 in. and very freely produced; fine for cutting. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25; 4 ozs., \$3.50.

***Yellow Supreme.** Bright lemon yellow, loose petaled flower. Not quite as long stemmed as Guinea Gold. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25; 4 ozs., \$4.00.

***Gold.** An odorless Guinea Gold, same deep golden orange color but considerably earlier. Excellent for a spring greenhouse crop or for outdoor cutting if not too hot. Tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.35.

Golden Eagle. Midway between Guinea Gold and Yellow Supreme in color. Quite large and fairly true to type. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.25.

DWARF. Excellent for borders; free and continuous flowering. Note real value of Floribundas, which flower fully six weeks earlier than others but which are easier weakened by heat.

***Floribunda Orange.** Same large flower and rich color as Guinea Gold, but extra dwarf, 12-15 in. tall. Unusually early and free flowering and excellent for borders. Tr. pkt., 20c; ¼ oz., 45c; 1 oz., \$1.50.



"GOLD" is the name of this new odorless Marigold, both flowers and foliage being entirely odorless. Color, deep golden orange, valuable for cutting, especially indoors. Photo was taken in May from a January 29th sowing.

***Floribunda Mixed.** Same fine dwarf habit as Floribunda Orange. Predominately orange with some gold and intermediate shades. Tr. pkt., 20c; ¼ oz., 45c; 1 oz., \$1.50.

***Golden Crown.** Rich golden yellow carnation-flowered type. Showy and very fine even under drought, but not extra early. Outstanding for fine color and free flowering compact habit. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Golden Queen. Bright golden yellow, carnation-flowered type. Extra dwarf and restricted growth. Nice as a pot plant, but hardly strong enough for bedding out where summers are hot. Medium early. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

OTHER LARGE FLOWERED TYPES

***Sunset Giants.** A fine giant flowered strain of Marigolds. Of carnation-flowered type, long stemmed, and in a variety of shades from golden orange to lemon. Favored by spring greenhouse conditions or more moderate summers, the blooms often become 6-7 in. across. Fine for outdoors or winter or spring greenhouse culture. Largest flowers develop if grown one flower per plant. Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.80.

***Orange Sunset.** (All America Winner). A rich lively orange segregation from the famous Sunset Giants. We were particularly delighted with the unusual flower size and trueness to type and color of this fine strain. Particularly recommended for single stem greenhouse culture. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

American Beauty Mixed. (Chrysanthemum-flowered). Large incurved or Mum flower type. Attractive colors, but rather late flowering for any but California and Southern growers. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.25.

American Beauty Orange. Similar in habit to above, but a deep strong orange. True to color. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

American Beauty Yellow. Same, but a strong clear yellow. Nice. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

Dixie Sunshine. Fully doubled Chrysanthemum type flower. Long stemmed and medium large flowered, but rather late for northern summers. Excellent in southern states. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

Nothing more colorful for combinations than Dwarf Marigolds.

MARIGOLDS—Continued

Sunrise. (All-America Winner). A real early flowering Dixie Sunshine. We find Sunrise of the same attractively formed flower as its parent. Plenty early to flower in our mid-west but not quite so long-stemmed as the old Dixie Sunshine. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Crown of Gold. Odorless and an incurved or Mum type flower with row of outer guard petals. Produce choice medium large cut flowers as a spring greenhouse crop but hardly strong enough outdoors where summers are hot. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

French Marigolds

The small flowered types. 9,000 seeds per ounce.

DWARF SMALL FLOWERED. A most valuable class to flower in small pots for spring combinations. For this use sow early in January and carry on in a warm house. Also, this class is largely used for bedding.

***Golden Harmony.** (All-America Award). A bright golden yellow "twin" to Harmony. Has same dwarf free flowering habit and uniform trueness to type that has made Harmony so popular. Fine as a pot plant or for bedding. Medium early. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Harmony.** Attractive scabious-like double flowers; deep orange center with maroon red outer petals. Quite striking and valuable in combinations or for bedding. Dwarf and free flowering. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.15; 4 ozs., \$3.25.

Limelight (New—All America Bronze Medal Winner). An extra large flowered French type; color a pale primrose yellow. Flowers are of incurved type. Trade packets only, 50c.

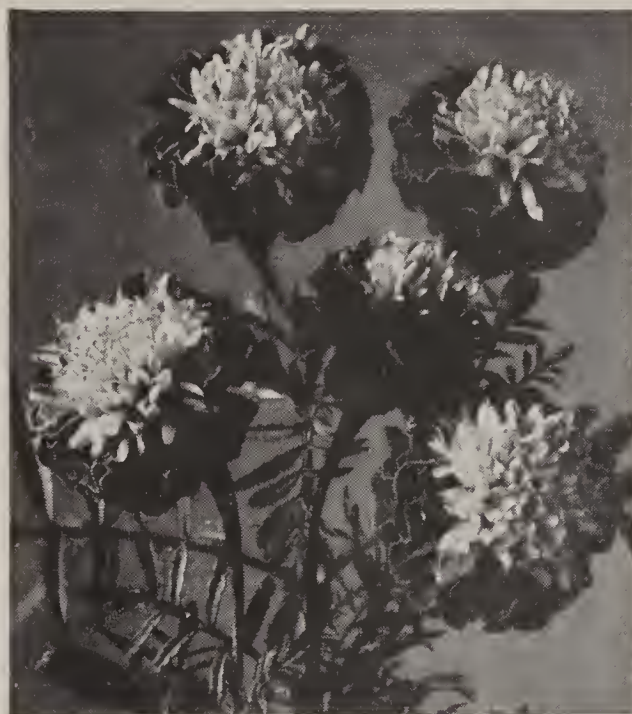
Royal Scot. All-Double. Showy fully double flowers nicely striped gold and mahogany. Quite uniform in color and habit; an excellent strain. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Monarch Golden Ball. Fine golden orange. Monarch strains produce a high per cent of full petaled tight double flowers. Finest in its color class. 12-15 in. Tr. pkt., 15c; 1 oz., 60c.

Yellow Pygmy (New—All America Winner). A new dwarf French lemon yellow; the brightly colored flowers are born freely on the extra compact bushy plants; quite true. Tr. pkts., only 50c.

Monarch Strain Mixed. Predominates in the same fine fully doubled flowers as Monarch Golden Ball, but in an attractive mixture of colors. A very choice strain, but not quite so early flowering as the regular French Mixture. Tr. pkt., 15c; 1 oz., 60c; 1 lb., \$2.00.

***Dwarf French Double Mixed.** An exceedingly col-



Marigold Harmony—one of the most valuable dwarf bedding varieties.

orful mixture with a most complete range of colors. Excellent for combinations or borders. Tr. pkt., 15c; 1 oz., 50c; 1 lb., \$4.50.

Robert Beist. Extra deep rich mahogany-red, medium large, fully 80% double. Nice. Tr. pkt., 15c; 1 oz., 60c.

Pallida. Double lemon or light yellow. Uniform and nice. Tr. pkt., 15c; 1 oz., 60c.

***Fire Cross.** Single. A light orange with mahogany-red center. Some deeper color than Legion of Honor. Remarkably true to type and fine for outdoors. Tr. pkt., 15c; 1 oz., 35c.

***Legion of Honor.** Well known dwarf single. Very similar to Fire Cross, but several shades lighter. Both this and Fire Cross are valuable for early flowering in small pots. Tr. pkt., 15c; 1 oz., 35c.

Signata Pumila Little Giant. (Not a French type, rather Mexican). Quite small single bright orange flowers very freely produced on uniformly dwarf bushy plants. Fine material for borders even in hot sections. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.15.

TALL SMALL FLOWERED. Certain varieties in this class are of particular value for spring cut flowers.

***Maroon Chief.** The regular Lieb's Winter flowering type, according to our experience won't flower if sown later than Feb. 1. This strain is offered to take their place for a spring crop; identical flower type, habit, and color. Sow in January. Very free flowering. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.25.

Double Scotch Gold Striped. Highly effective and true, but rather late flowering for early frost sections. 2½ ft. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

Single Josephine. Small dark brown. 2 ft. Tr. pkt., 15c; 1 oz., 50c.

WINTER FLOWERING. Of value for fall sowing to produce a continuous crop through the winter. See above Maroon Chief for a tall French variety for spring.

***Australian Tree.** Strong growth, fairly long stemmed, mahogany red flowers with golden yellow crest in center. Of high value for winter culture. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

Lieb's. Not quite so long-stemmed or heavy as above, but more uniformly double flowered; mahogany and gold. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Lieb's Winter Sunshine. Similar to above in winter flowering habit, etc., but a bright golden orange with yellow center. Tr. pkt., 50c.



Marigold, Yellow Supreme—largest flowers if grown single stem.

The Sunset Giant Marigolds are rapidly replacing the Giant Africans.

WINTER SNAPDRAGONS

Probably for the first time in the history of our business, we offer forcing Snap seed produced under "controlled pollination"—no bees in other words. This necessitated careful screening of all vents,—and hand pollination of about 50,000 plants. It is most gratifying to note in our trials of this seed that in most cases rogue or off color plants are practically eliminated. Germination of this seed we find excellent, but the crop was, unfortunately, light.

CULTURE. The most popular sowing of Snaps is made in early June—coming into flower in November and if cut back, again, during mid-winter. Some even hold these plants over for spring. However, sown even in January, they will flower nicely during May—earlier and fine quality if planted close and grown single stem. As a rule of thumb, Snaps require 4½ to 5½ months to flower from sowing—less in spring months and more if temperature is very low. Most important point in their culture is avoiding soft growth—religiously avoid overfertilizing especially nitrogen during winter, keep plants distinctly on the dry side (raised benches help!), maintain a night temperature of under 48° for best quality.

12 BEST VARIETIES

We offer here only the varieties proven by us in our trials.

Glorious. A fine intense deep bronze shaded scarlet with closely set spikes. ½ tr. pkt., \$1.25; tr. pkt., \$2.00; 3 pkts., \$5.00.

Velvet Supreme (Ball). A warm crimson red selection from old Velvet Beauty. ½ tr. pkts. only (until new crop in July) \$1.00.

White Wonder. Finest early white; a pure paper white color and good habit. Tr. pkt., \$1.50; 3 pkts., \$4.00; 5 pkts., \$6.50.

Marie Louise. A pleasing light sea-shell pink unusually true to color and fine for spring. Tr. pkt., \$2.00; 3 pkts., \$5.00.

Klondike Supreme. Deep intense golden yellow with extra large individual florets. Tr. pkt., \$1.50; 3 pkts., \$4.00; 5 pkts., \$6.50.

Cheviot Maid Reselected (New-Ball). We are pleased to offer this greatly improved strain of the old favorite, Cheviot Maid. Chief improvements are in trueness and uniformity of type, color, and early habit. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

New Cincinnati. A shade lighter than Cheviot Maid with fine large individual florets and flower spike. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Rose Queen. The deepest standard rose forcing Snap. Excellent early habit. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Afterglow. Same habit as Rose Queen, but color an attractive deep golden bronze. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Miss Wooster. Early flowering light golden bronze; clearly best in its color. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Ceylon Court Dark Selection. Early flowering clean habit makes this variety best for winter flowering yellow. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Suntan. Early orange-tan. Choice color and extra long-stemmed. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Ball Forcing Mixture. Carefully balanced mixture of the most popular varieties in our 12 Best list. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

WINDMILLER'S VARIETIES

Following are the production of Fred Windmiller, Snapdragon specialist of Columbus, Ohio. Originator's descriptions follow.

Rose Pink Cheviot Supreme. Large and exceptionally uniform but blooms not quite so closely set. Extra early and valuable for winter flowering. Tr. pkt., \$1.50; 3 pkts., \$4.00; 5 pkts., \$6.50.

La France. A true to color selection from this beautiful soft pink. Tr. pkt., only, \$2.00.

Snow White. Excellent white for Easter and later. Tr. pkt., \$2.00; 3 pkts., \$5.00; 5 pkts., \$7.50.

Lilac. A good orchid for forcing; hard stemmed and early. Tr. pkt., \$2.00; 3 pkts., \$5.00; 5 pkts., \$7.50.

Christmas Cheer. Hybrid from Rose-pink Cheviot. Earlier and an excellent all-round pink. Tr. pkt., \$2.00; 3 pkts., \$5.00; 5 pkts., \$7.50.

WINDMILLER'S VARIETIES—Continued

Apple Blossom. About the shade of Verbena Mayflower deepening in late spring. Tr. pkt., \$2.00; 3 pkts., \$5.00; 5 pkts., \$7.50.

STANDARD LIST OF FORCING SNAPS

COMPLETE EXCEPT FOR THE 12 BEST

Where Price Is: \$1.00 per pkt., we supply any 3 for \$2.50; any 5 for \$3.50; any 7 for \$4.55. \$1.50 pkts., we supply any 3 for \$4.00; any 5 for \$6.50.

\$2.00 pkts., we supply any 3 for \$5.00; any 5 for \$7.50.

½ Trade pkts. of any variety priced at \$1.00 are supplied at 60c.

½ Trade pkts. of any variety priced at \$1.50; supplied at \$1.00.

No ½ pkts. on \$2.00 varieties except Glorious.



Snapdragon "Glorious"

	<i>Tr. Pkt.</i>
Bertha Baur. Standard lavender; some rogue colors.	\$1.00
*Captor. Pure white; fair habit.	1.00
Celestial. Long stemmed; light yellow.	1.50
Ceylon Court. Good standard yellow.	1.00
Cheviot Maid White. Fair sized flower.	1.00
Cheviot Maid Yellow. Bright golden yellow; early.	1.00
*Coate's Yellow Perfection. Fine strong growing deep yellow.	1.00
*Daybreak. Briarcliff shade of pink. All orders for this variety will be filled with our new rust-proof strain. See novelty list on page 3 for further description	1.00
Ethel. Bright golden yellow; quite early and free flowering; fair sized flower.	2.00
Gilbert's Pink. About shade of Rose Queen.	1.50
Ideal (Hodaly's). A Bi-color, copper bronze and gold. Popular new shade on Chicago market.	2.00
Kirkwood Beauty. Orange bronze.	1.00
Lucky Strike. Strong growing valuable early white.	1.00
Marion. Good early habit; clear white.	1.50
New Deal. Extra early bronze; prefer Sunlite.	1.00
Orchid (Schrock's). Varies some in color but a good orchid lavender.	1.50
Peggy Schumann. Medium deep pink; fine spikes and habit for winter flowering.	2.00
Radiance. Large flowered extra early pink.	1.00
Schumann's Lavender. Originator's description: "A true lavender, early and entirely different color than Bertha Baur". 2,000 seed pkt., \$3.50; 1,000 seed pkt.	2.00
Sunlite. Extra early golden bronze; best for mid-winter.	1.00
*Terry's Surprise. (Imp.) Rose shaded orange; choice for spring.	1.00
Velvet Beauty. Deep crimson; prefer Velvet Supreme for warmer color.	1.00
Westover Fringed White. Large fringed pure white; fairly early.	1.00
White Prosperity. Clear white; extra free flowering.	1.50
White Rock. White; flowers poorly spaced.	.50
Winter Helen. Improved Helen.	1.00
Standard Mixed. Good mixture of above varieties.	.75

The Early or forcing Snaps are much used for outdoor work.

Snapdragons for Outdoors (Not Winter Flowering)

(180,000 seeds per oz.)

The fact of RUST-RESISTANCE in Snapdragons is now a definitely established one and also is the fact that these new Rust-resistant strains are, in many cases, definitely superior in trueness as well as flower size, colors, etc., to the older non-rust resistant ones. For this reason, our selected "10 Best" list below

consists entirely of Rust-resistant varieties. The tendency of some varieties in the past to vary in color is considerably improved this season; with a few exceptions as noted, these new varieties are quite even and true.

"10 BEST" RUST RESISTANT SNAPS

These varieties are chosen from our complete outdoor flowering tests of all available varieties. We are quite certain you'll find them dependable and generally satisfactory.

***Rosalie** (New Majus Grandiflora). Received Bronze medal in '39 All America trials. The deep rose we have been waiting for. Color of Rose Queen in the Earlies. Fine closely-set spike and good stem. Should be included in every outdoor Snap planting. Tr. pkt., 50c; 1/16 oz., 85c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$9.00.

Swingtime (Maximum). A very nice medium light pink with yellow lip and white throat. Good cut flower habit. Tr. pkt., 25c; 1/4 oz., \$1.10; 1 oz., \$3.85.

Maximum White. Clear paper-white on long straight stems. Best cutting variety. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Alaska (Maximum). White with slight creamy cast. Not as long stemmed as above but much freer flowering. Best for decorative plantings. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Canary Bird. (Maximum). Clear light yellow, long stems. Fine cut flower variety. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Buttercup (Majus Grandiflora). Medium deep canary yellow; very free flowering. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

Defiance (Majus Grandiflora). Color shades some in the bronze and Wallflower Red classes. Truest and longest-stemmed variety in this color. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

Maximum Crimson. Deep velvety crimson—same as the Early Velvet Supreme. Growth not quite as strong as other Maximums, good cut flower variety. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

University of California Mixture. An exceptionally strong growing and long-stemmed strain covering a very complete color range. A fine mixture for long-stemmed cut flower work. Tr. pkt., 20c; 1/4 oz., 50c; 1 oz., \$1.75.

Golden Orange. Dwarf for bedding only. Light golden bronze with white throat. Very bright combination. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

REGULAR OUTDOOR VARIETIES

(Except "10 Best" list above—Rust resistant where noted)

MAXIMUM. Longest-stemmed type for cutting. Strong growing and large flowered.

MAJESTIC. Extra large flowered class on medium long stems.

	Tr. pkt.	1/4 oz.	1 oz.
*Appleblossom (Rust Res.). Light pink with yellow lip and white tube. Strong grower.	.25	.85	3.00
Campfire (Rust Res.). Light bronzy scarlet. Varies some.	.25	.85	3.00
Cattleya . Orchid lavender.	.15	.35	1.25
Copper King (Rust Res.). Bronze or copper scarlet.	.25	.85	3.00
*Daffodil (Rust Res.). Bright canary yellow. Upright growth.	.25	.85	3.00
Loveliness (Rust Res.). Shades of light pink.	.25	.85	3.00
Orchid . Bright lavender.	.15	.35	1.25
Ruby . Deep ruby red.	.15	.35	1.25
Snowflake . White, yellow lip.	.15	.35	1.25
*The Rose . Deep rose-pink.	.15	.35	1.25
*Yellow Giant (Rust Res.). Bright canary yellow. Good cut flower habit.	.25	.85	3.00
Mixture (Rust Res.). Of all colors in this class.	.20	.60	2.00
MAJUS GRANDIFLORA . Large flowered; not as long-stemmed as Maximums; good cut flower.			
*Apricot Beauty . Large flowers of an attractive apricot pink shade. Good cut flower variety.	.15	.35	1.25
*En Garde . Coral pink with some amber.	.15	.35	1.25
Harmony . Terra cotta rose with some yellow.	.15	.35	1.25
*Opal Queen (Rust Res.). Buff or terra cotta pink with yellow.	.25	.75	2.50
*Shasta (Rust Res.). Slightly creamy white. Free flowering.	.25	.75	2.50
Wallflower Red (Rust Res.). Varies from true wallflower red to crimson.	.25	.75	2.50
Hybrid Mixture (Rust Res.). Mixture of all above colors with many intermediate shades.	.25	.75	2.50

	Tr. pkt.	1/4 oz.	1 oz.
*Celestial Salmon Rose . Dwarf habit and practically 100% true. Cheviot Maid Supreme pink.	.50	1.75	6.00
Fair Lady . Clear light rose pink.	.25	.65	
*Golden Dawn . Medium light golden bronze.	.25	.50	
*Orange Shades (Rust Res.). Bright shades of bronze and golden orange. 1/8 oz., \$1.00.	.50	1.75	6.00
Orange King . Very nearly shade of Afterglow in Earlies.	.25	.65	
*Rose Beauty . Fine deep pink.	.25	.65	
*Rose Sensation (Super Majestic Rust Res.). A light pink shade similar to New Cincinnati in the Earlies. 1/8 oz., \$1.00.	.50	1.75	
Twilight . Golden or buff yellow.	.25	.65	
Mixture . Of all colors.	.25	.50	1.50
NANUM . Dwarf compact habit for bedding.			
Climax . Golden orange shades.	.15	.35	1.15
Empress . Velvety crimson.	.15	.35	1.15
*Flame . Bright fiery scarlet.	.25	.45	1.75
*Gloria . Deep rose pink.	.15	.35	1.15
Golden Queen . Golden yellow.	.15	.35	1.15
*Guinea Gold . Extra large golden orange. 1/8 oz., \$1.00.	.50	1.75	6.00
His Excellency . Orange scarlet.	.15	.35	1.15
Indian Girl (Rust Res.). Golden bronze with some rose shading.	.20	.60	2.00
Purity . White.	.15	.35	1.15
*Light Salmon Pink (Rust Res.). Light pink shades with some yellow lip.	.25	.85	3.00
Wildfire (Rust Res.). Bronzy orange with some rose shading.	.20	.60	2.00
Yellow Gem (Rust Res.). Lemon yellow medium dwarf habit.	.20	.60	2.00
Mixture (Rust Res.). Of all colors in this dwarf class.	.15	.40	1.25
TOM THUMB . Extra dwarf, nearly procumbent habit.			
*Magic Carpet . Attractive color mixture. Originator's stock.	.35	.75	

Sow snaps in Jan.-Feb. and plant outdoors from 3's for June cutting.

STOCKS

(15,000 to 20,000 seeds per oz.)

While demand for Stocks seems strongest during spring, they are sown in quantity anytime from July 15 to Feb. 15—the extreme dates in Chicago latitude to avoid blindness. Depending on temperature, they will flower in from 5 to 6 months of sowing date; a spring crop will come in quicker than one grown during mid-winter. Now a word about that blindness: its one cause is too high temperature. Schools tell us that over 65 degrees for 6 hours per day will cause it. Only remedy is to avoid sowings that hit "heat waves" in your own climate. It is interesting to note that Stocks will set bud quicker at 35 degrees than they will at 55.

Stem rot—No. 2 scourge of good Stocks—is entirely preventable by either using fresh soil or thoro (no half way job!) sterilizing—preferably steam. Further help on a crop already in, is keeping plants dry as possible, and atmosphere cold and dry. Ground beds are quite O.K. for spring crops, but if used in mid-winter flowerings keep soil dry and air temperature down around 42. And speaking of temperatures, 45 degrees nights is best, 50 will result in fine stock—but won't stand up when cut. 38 to 40 degrees takes 6½ months to flower, but gives excellent quality. Stocks are fairly heavy feeders, especially during Spring—sulfate of ammonia makes them "jump" from early April on. We have always benched seedlings, but are beginning to ponder over the plan of such growers as John Heckman ("Grower Talks," Nov., '39) who carries them in 2¼ inch pots in cold frames til Thanksgiving.

Practical help can be had on eliminating singles by removing the weaker plants when about 6 inches high—percentage of doubles can be boosted to 85% with a little practice. See "Grower Talks," Sept., '39 for more on this.

BALL Non-Branching Stocks

(18,000 seeds per oz.)

We originally demonstrated the attractive value of this class for cutting and have since devoted annually extensive greenhouse space to their improvement. Today, three-quarters of our glass area is devoted to developing new varieties and seed production. In addition, much must be grown for us in California and Europe. These field crops are inspected by us carefully and are produced from our own stock seed, yet it occasionally has happened that strains got thru that were not up to our standard. We do all that is humanly possible to avoid this, for we are in position to know the value of greenhouse space. We should state also that the Non-Branching class does not average up quite so high in proportion of doubles as will the branching Bismarcks. The average is around 60%, while the branching will run around 65%. Also, our strains are Non-Branching to the extent of at least 99%, not counting a few minor lateral growths. None of our strains are

We devote most of our glass to improving non branching stocks.



Our Non-Branching Ball White No. 16 for Easter. Sown November 1st, run quite cool, about 45-degree nights, will stand some forcing if necessary. We find this a nice Easter crop.

semi-non-branching, producing 2-3 strong side branches such as are occasionally offered in this class. We find that the non-branching strains should be used exclusively by growers for highly competitive markets. Their greater size and stem make them supremely fine when well grown.

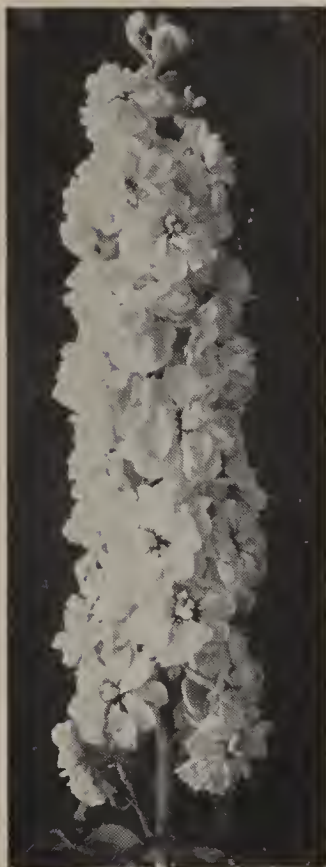
Please note that part of any lot of Stock seed is not fully enuf matured to germinate and that such seed cannot be separated. 10,000 seedlings from an ounce is a good stand. We do not send out any seed that does not test out with us to this figure.

PLEASE ORDER BY NAME AND NUMBER TO AVOID ERRORS

Prices on **All Non-Branching** varieties as follows:

½ Tr. pkt., 60c; Tr. pkt. (about 1,200 seeds), \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

- ***No. 17—Gold Standard.** Our latest addition to the Non-Branching class, this pleasing canary yellow is strictly non-branching. Despite persistent selection work, we find that the singles and about 5% of the doubles come a pure paper white. Both colors are valuable for cutting.
- ***No. 1—Lilac Lavender.** A clear bright lavender shade; spikes unusually large and fine. The original color in this class and still remains the most popular.
- ***No. 3—Ball Blue.** A selection made by us from Lilac Lavender that comes a rich lilac shade similar to Bismarck Lilac; excellent.
- ***No. 15—Ball White Improved.** Our new white selection; to our knowledge the finest pure paper white strictly non-branching Stock available. A real improvement over the tinged pink strain formerly offered and hard to beat for cut flower purposes.
- ***No. 16—Ball White Improved Medium Tall.** Identical to above but not quite so tall—about six inches shorter as flowered under our mid-winter conditions on ground beds. Extra compact pure white and generally preferred for mid-winter crops.
- ***No. 11—Ball Pink.** Fine clear rose-pink and again of strictly non-branching habit. About 10 days earlier than our No. 14 and some lighter in color. The preferred variety of the two for mid-winter flowering.
- ***No. 14—Ball Rose Pink.** A somewhat deeper shade than our No. 11; considerably stronger growing and correspondingly later flowering. A fine rose and generally preferred for spring crop.
- No. 2—Ball White (Tinged).** Tall long-stemmed white (slight pink blush); shows several weak breaks near top of the stem.



Non-Branching Stocks,
Ball's Pink

No. 2—Ball White Medium Tall (Tinged). Similar to above but about six inches shorter and for this reason, preferred for mid-winter flowering.

No. 4—Ball White Dwarf. About six to eight inches shorter than No. 2 Medium Tall; comes about 24 inches on ground bed.

No. 5—Ball White Extra Dwarf. Extra compact growth, and spikes, very large flowered and choice for pot culture.

No. 6—American Beauty. True deep American Beauty Rose; a rich but deep color.

No. 7—Malmaison Pink. Long stemmed light or shell-pink; slightly inclined to break around top of spikes but a pleasing strain for spring flowering.

No. 8—Ruby (Illusion). Long stemmed rich crimson red; fine type and color but rather deep for most commercial markets.

No. 9—Chamois Pink. Pleasing apricot or chamois-pink shade. A good color but we regret that the best strains obtainable come but 45% to 50% double.

No. 12—Snowbank. Pure white with fair sized flowers; not so closely spaced as our No. 15 or 16 Improved

White that we much prefer for cut flower purposes.

No. 10—Ball Non-Branching Mixture. A carefully balanced mixture of the more valuable cut flower colors in the above list. Recommended for the retail grower whose planting is limited.

Stocks—Branching

A good proportion of a retail grower's Stocks should consist of this class. Tho shorter stemmed, they are more freely produced than the Non-Branching. The branching kind can be planted close and grown single stemmed; planted this way, they won't branch except about the top and from there the branches should be removed. However, they will not be as large flowered, neither will the flowers be so closely placed on the stem as the Non-Branching.

A good suggestion with the branching kind is to space them 6 x 6 in. When up about 8 in., top back about one-third. Another good plan is to let them go until buds are far enuf along to distinguish the singles, which are then removed. Under favorable conditions the remaining doubles, that should, of course, be topped, will nicely fill out the irregular empty spaces left, leaving a 100% bed of doubles. However, single Stocks have value for retail growers.

Stars (*) indicate the varieties we find preferred.

GIANTS OF CALIFORNIA

This is an improved Bismarck class, the original variety of which is Santa Maria that we consider the finest branching white. The improvement in this class is in stronger growth and somewhat enlarged flowers. While we do not find the improvement a radical one, except Santa Maria, we do find the other colors very excellent stocks. We find the Giants of California much preferred for cutting to the Bismarcks.

***Pacific.** Fairly dark blue with extra stem and growth; about the color of Bismarck Lilac.

***Yosemite.** About the shade of Bismarck Rose; a strong clear color with extra heavy growth.

***Santa Maria.** Generally accepted as the best branching pure white; distinctly stronger than Bismarck White.

Roselight. Similar to Yosemite, but some stronger growing.

Prices for Above Four Varieties: Tr. pkt., 35c; ¼ oz., \$1.15; 1 oz., \$4.00.

Mixture of all colors in this new class. Tr. pkt., 25c; ¼ oz., \$1.00; 1 oz., \$3.50.

IMPROVED BISMARCKS

Antique Copper. Fine copper red.

Apple Blossom. An extra delicate pink; nearly white.

Blood Red. Ruby color.

Buttercup. Deep cream, strong growing.

***Chamois.** Fine clear chamois.

***Elk's Pride.** Rich purple.

Flesh. Delicate shade of Malmaison Pink.

***Golden Ball.** Ivory yellow.

Golden Rose. As named.

***Lavender.** Clear lilac lavender; fine.

***Lilac.** Bright deep lilac-blue.

***Rose.** Fine bright rose pink.

***Shasta.** New giant white.

White. Good clear white.

Prices Each: Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

Formula Mixture of above colors. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

PERPETUAL BRANCHING

(Giant Perfection)

Habit similar to Bismarcks, but not quite so tall.

***Empress Augusta Victoria.** Fine silver lilac.

Heatham Beauty. Terra-cotta or golden rose.

Rose. A clear even shade.

Snowdrift. Clear white.

Prices Each: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Mixture of above. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

BEAUTY OF NICE

Compact like a Ten Week but not quite so dwarf.

Aurora. Golden buff.

Flesh Pink (Beauty of Nice). Flesh or Malmaison pink.

Cote d'Azur. Light lavender-blue.

Mont Blanc. Clear extra early white.

Monte Carlo. Rich canary-yellow.

Queen Alexandra. Rosy lilac; fine.

Prices Each: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Mixture of above. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

TEN WEEK

Dwarf, compact, and early; used for bedding and pot plants.

Blood-Red	Carmin-Pink	Lavender	White
Canary-Yellow	Deep Rose	Purple	

Prices Each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Formula Mixture. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.60.

For Virginian Stock see annual list.



Showing a bench of our Column Stock growing in gravel at West Chicago.

Use the class listed as 10 week for spring pot plants.

LATE OR SWEET PEAS (350 Seeds Per Ounce) SUMMER

All our Sweet Pea seed, both Early and Late, is treated with Red Copper Oxide or Cuprocide unless untreated seed is requested. We find this helps germination by protecting them against the germs of rot.

In order to produce quality outdoor Peas in Chicago latitude, it is absolutely necessary to sow indoors February 1. A sowing made much later than this will be overtaken by summer heat before it even gets into crop. We usually pot three seedlings to a 2¼ inch pot and keep them in as cold a house as is available—38 to 40 is quite O.K. By mid-April, you will have fine stocky plants alive with white roots—and hard enuf to stand a light freeze. We usually set ours out then, providing frost protection with straw. By the way, have you looked into possibility of our new spruce Plant Bands for handling these plants? We found they work out fine.

Once outdoors, the plants must be sprayed weekly to hold back the inevitable green fly. We use nicotine 1-400. Failure on this important point will result in a siege of the Aphis that will not only ruin the Pea crop, but will spread to other valuable stock. A good garden soil is suitable for these Peas; liberal manuring of the land the fall before use will help; moderate applications of commercial fertilizer will also produce some response. Vines produce more freely if supported same as is done with indoor crop.

An interesting "side use" of the lates is for planting along with earlies in the greenhouse. A few seeds scattered along the row of winter sown earlies will make only a heavy rampant growth until early in May. At this point, the earlies shorten up, and the lates come into crop with fine long stemmed stock that will last well into June. The new Spring-Flowering class offer real promise for this purpose.

TWO NEW ONES—each seemed outstanding in our preliminary trials the past season. We suggest you give them a trial.

Crony (New). A pleasing intense coral or salmon rose with fine stem. While not an extra strong grower, its unusual color and large flower were outstanding.
Price: ½ oz., 30c; 1 oz., 50c; 4 ozs., \$1.60; 1 lb., \$5.00.

Fairyland (New). A fine clear pink on cream ground. Quite attractive color and outstanding for growth and flower size.
Price: ½ oz., 35c; 1 oz., 60c; 4 ozs., \$1.75; 1 lb. \$6.00.

The Six Best Late Peas

The following six varieties we believe represent the best ones in their respective color classes. Our choice is based both on experience growing them for market and on your demand for them and we believe you won't go wrong by taking them into consideration.

Pinkie. Finest rose-pink; large flowered and long stemmed and a heavy producer.

Pinnacle. A deeper shade of rose than Pinkie; about like Early Success.

Gigantic. Finest late white; extra large flowered and many duplexed; black seeded.

Chinese Blue. Bright strong clear color; our best late blue.

Highlander. An unusually large flowered fine late lavender; decidedly improves Powerscourt in all respects.

Welcome. Brilliant sunproof scarlet. Large flowered and long-stemmed.

Six Best Mixture. A mixture of the above "All the Best" varieties of Late Peas.
Prices on All Above Each: 1 oz., 20c; 4 ozs., 60c; 1 lb., \$1.75.

General List (Except 6 Best)

***Maytime.** A rich golden cerise with fine long stemmed habit; lots of 4's and extra large flowers. ½ oz., 15c; 1 oz., 25c; 4 ozs., 65c; 1 lb., \$2.25.

***Ball Shrimp Pink.** A delicate shade of shrimp-pink. Its fine strong habit showed up well again in our trials the past season. ½ oz., 15c; 1 oz., 25c; 4 ozs., 65c; 1 lb., \$2.25.

Ambition. Fine rosy lavender.

Ascot. Pleasing light rose-pink.

Avalanche. Finest white-seeded white.

Beatall. Sparkling pink suffused salmon; extra for growth.

***Begonia Rose.** Rich even Begonia rose.

Blue Bird. Fine clear blue.

***Blue Flame.** Deep bright blue.

***Bonnie Briar.** Very fine rose-pink.

Campfire. Deep sunproof scarlet.

Chieftain. Rich satiny mauve-blue.

Constance Hinton. Black-seeded white.

Crimson King. Fine sunproof crimson.

Debutante. Soft salmon shaded pink.

Fiancee. Quite attractive soft salmon-pink.

Fluffy Ruffles. Soft cream pink.

Giant White. Pure white.

Gleneagles. Clear even lavender.

Hawlmarm Lavender. Light lavender.

Hawlmarm Pink. Rose-Pink.

***Headlight.** Fine sunproof orange-scarlet; extra for stem and bright color.

Heavenly Blue. Good Delphinium blue.

Hebe. Large rose-pink.

Hero. Cerise; prefer Headlight.

Lady Loch. Light blush pink flushed salmon.

Lady Ruffles. Large ruffled soft pink.

Loveliness. Silvery pink cream ground.

Magnet. An improved Miss California.

Mary Pickford. Cream salmon-pink.

Mastercream. Extra strong cream.

Matchless. Deep cream.

Miss California. Large salmon-rose.

Model. Good white.

Olympia. Deep purple.

***Powerscourt.** Fine standard lavender; strong growing and good stem.

Royal Purple. Large rich purple.

Royal Scot. Sunproof orange-scarlet.

Springtime. Nice light clear rose.

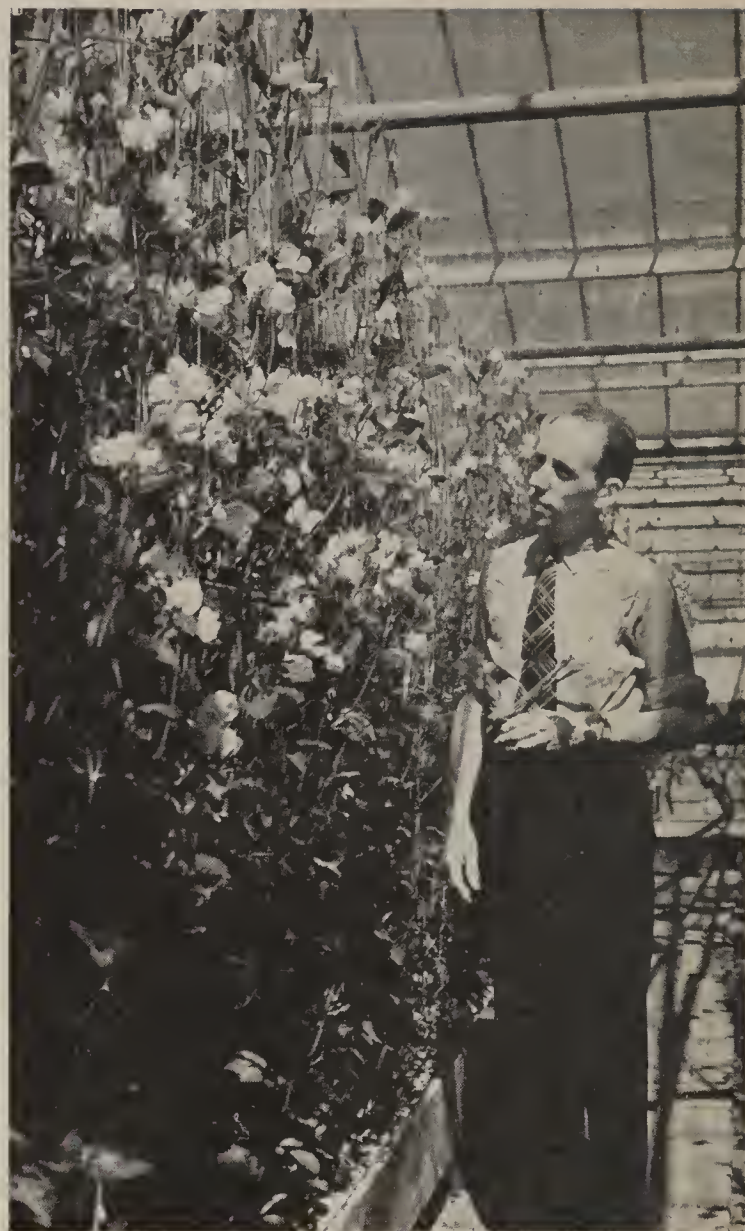
The Clown. Crimson and white.

Warrior. Deep bronze-maroon.

Prices on all the above standard varieties:

1 oz., 20c; 4 ozs., 60c; 1 lb., \$1.75.

Ball Florist's Mixture. Carefully made up mixture of above kinds; good cut flower colors predominating. 1 oz., 15c; 4 ozs., 50c; 1 lb., \$1.25; 5 lbs., \$5.00.



Our "Vic" is justly proud of his "grave" grown spring peas. Sown Nov. 1, photographed April 16. Variety: Ball Rose Queen.

In ordering sweet peas, please state whether Early or Late class are wanted.

EARLY or WINTER PEAS

(350 Seeds Per Ounce)

All our Sweet Pea seed, is treated with Cuprocide (Red Copper Oxide) unless otherwise requested.

A Jan. or Feb. sowing of this class will flower freely by Mother's Day.

Don't overlook the value of the Earlies for late planting. They will, of course, not get so long stemmed as an earlier planting; neither will they require so much headroom, 4-5 ft. usually being enuf. This is the planting with which to use the lates.

The 12 Best Varieties

Our cultures at West Chicago annually include 50,000 square feet of glass devoted to growing Early Sweet Peas for market. On the basis of this experience together with your demand for them, we have selected the following varieties as the 12 Best for the season. We realize the importance of good varieties in plantings of Peas and have considered carefully those that follow; we believe you will find all of them worth-while in their color classes.

In Ordering Sweet Pea seed don't forget that there are two distinct classes, Early or Winter-flowering and Late or Summer flowering. **State Which is Wanted.** If you are not familiar with the best kinds and wish us to make selections for you, we shall gladly do so.

Ball Rose Queen. Our greenhouse selections give us this fine long-stemmed clear rose a distinct improvement, particularly in stem length over any others of this color class. Supply limited until new crop about August 1st. ½ oz. only 40c.

Laddie Improved. Extra long fine rose-pink. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Sequoia. Quite large flowered attractive salmon-rose. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Boon. Deep salmon-rose on cream; large flowered. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Bridesmaid. Delightful silvery pink, very large flowers. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Ball White. Finest large pure white; white seeded. ½ oz., 25c; 1 oz., 35c; 4 ozs., \$1.20; 1 lb., \$4.00.

Ball Rose Improved. Deep bright rose, strong free flowering. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Triumph. Long-stemmed attractive lilac-mauve. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Ball Orange Improved. The only early clear true orange. ½ oz., 25c; 1 oz., 35c; 4 ozs., \$1.20; 1 lb., \$4.00.

Harmony. Best commercial lavender; early and free flowering. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Mrs. Hoover. Best early blue; strong grower. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Princess Blue. Light lavender-blue. Extra large. ½ oz., 30c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.75.

12 Best Mixture. Carefully blended mixture predominating in the more valuable cut flower colors from our 12 Best list. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Novelties

The following varieties have proven outstanding in our preliminary trials and we recommend them to you as promising.

Bacchus. (New). Extra deep maroon-purple; large flowered. ½ oz., only 30c. Supply limited.

***Blue Danube.** A showy deep clear blue; excellent growth. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Redwood (New). Extra large flowered deep crimson. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Sunproof Orange. With slight scarlet-cerise shading. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Most profitable greenhouse crop if roots are not rotted away or temperature too high.

***Tahoe.** Fine dark blue for spring; not extra early. ½ oz., 30c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.75.

***Treasure Island** (New). Sparkling golden orange; outstanding for stem length, and large flowers. ½ oz., 50c; 1 oz., 90c; 4 ozs., \$3.20; 1 lb. \$12.00.

Vivian (New). Unusually long-stemmed deep carmine-rose. ½ oz., 30c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb. \$4.75.

***Daphne.** Soft salmon-pink on cream; fine for stem and flower size. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb. \$3.50.

GENERAL LIST (Except "12 Best")

American Beauty. Fine American Beauty rose.

Amethyst. Rich bright purple.

Annie Laurie. Bright rose-pink.

Apollo. Salmon-cerise; fine for spring.

Attraction. Rich long-stemmed salmon-rose.

Aurora. Orange—scarlet striped.

Bright Light. Vivid orange-scarlet.

Chevalier. Dark rose.

Columbia. Rose and white bicolor.

Eileen. Rich Begonia rose.

Eleanor Blue. Nice light blue for spring flowering.

Flamingo. Orange-salmon; long-stemmed.

Fragrance. Fine lavender for spring blooming.

Giant Rose. Extra large rose; medium stem.

Grenadier. Poppy scarlet.

Harlequin. Chocolate bicolor; attractive novelty.

***Hope.** Fine white; black-seeded and easy to germinate.

Jeanne Mamitsch. Clear Rose, long stems.

***Josie.** Longest stemmed clear rose-pink.

Majestic Rose. Fine large flowered heavy stemmed rose-pink.

Maroon Prince. Dark maroon, rather heavy.

Michigan. Large lavender.

Mrs. Holscher. Very large rose-pink.

Mrs. Kerr. Salmon.

Oriental. Black-seeded cream.

***Pride.** Extra long-stemmed brilliant cerise.

Prosperity. Soft glowing rose-cream.

Red Bird. Crimson-red.

Snowstorm. White-seeded white.

Springsong. Prefer Boon.

Success. Extra bright deep rose-pink.

Sunray. Light cerise, fine long stem.

Top Hat. Deep bright violet-blue; fine growth and strong color.

***White Harmony.** Longest stemmed black-seeded white.

Zvolanek's Rose. Rose; prefer Laddie.

Any Above Priced At: ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Ball Early Mixture. A well balanced mixture of the above colors. ½ oz., 15c; 1 oz., 25c; 4 ozs., 85c; 1 lb., \$3.25.

The New Spring Flowering Peas

This new intermediate class was introduced to the trade this fall by the Ferry-Morse Seed Co., and we are happy to say is being quite generally tried out this season. Being of an intermediate type, between the Early and Late class in growth and flowering season, it occurs to us that a Jan. sowing of this new class with the Early for spring flowering will produce a nice succession-crop. The spring flowering class from a Jan. sowing won't flower in our northern states until well into April and not heavily until Mother's Day by which time the Earlies will have shortened up considerably. This type should flower earlier than a sowing of the Lates started at the same time and should, therefore, be in better demand. Try it for this purpose this season.

Sorry that we are completely **sold out** of the **Rose Pink** for the season; we have, however, a good supply of both **Lavender** and **Blue** in this new Spring flowering class; also a **Mixture** of lavender and blue. Prices as follows: ½ oz., 75c; 1 oz., \$1.40; 4 ozs., \$5.50.

PRIMULAS

Some very popular pot plants are found under this heading. For the hardy varieties, turn to the perennial pages.

OBCONICAS

About 1,200 seeds per Tr. pkt.; 4,500 seeds per $\frac{1}{32}$ oz.

Most colorful of all varieties for pots. Tho contact with them has an irritating effect on the skin of some, the demand for Obconicas actually seems on the increase. When exposed to varying atmospheric moisture, seed of this class loses its germination rather rapidly. To conserve it, we have all our Obconica seed put up in sealed glass tubes by our European grower. New crop is received in Dec.—Jan., and we have confident assurance of delivery.

Better Days. Good deep carmine-red; compact habit.

Coerulea. Fairly dark blue.

Fasbender's Red. Large deep crimson.

Lachrosa. Large bright rose with attractive salmon shading; nice.

Mohnstein's Atrosanguinea. Dark red.

Mohnstein's Dark Red. Well known dark red.

Mueller's Berlin Rose. Bright clear rose.

Mueller's Rosea. Good rose.

Salmon Queen. Salmon or coral-rose.

White. A popular strain.

Any Above Priced at: Tr. pkt., ($\frac{1}{128}$ oz.), \$1.10; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

Mixture. Carefully blended mixture of above colors. Tr. pkt., ($\frac{1}{128}$ oz.), 60c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

Portland Beauty. Double flowering rose-pink; excellent. Tr. pkt., \$1.50.

MALACOIDES

12,000 seeds per $\frac{1}{32}$ oz.

Most popular of all pot plant Primulas. Easily and quickly grown but susceptible to a base rot that should be anticipated by careful watering. We also believe this rot is frequently brought on by permitting the plants, especially in the early stages of their growth, to become wilting dry. This rot is not serious with specialists who do them well. Light or sandy soil with plenty organic matter in it is also an important point in their successful growth. A Jan. sowing can be grown into nice small pot plants for Spring combinations.

***Rosea Superba.** Finest extra large flowered and compact bright orchid rose. We find this variety clearly superior in its color class. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.25.

Baby Rose (Erikssoni). Extra good bright rose; compact habit and one of Eriksson's best. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50.

***Riverside** (New Erikssoni). Very attractive bright rose, good habit. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$2.75.

***Brilliancy** (Erikssoni). Attractive crimson red. Outstanding color in combinations. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50.

New Baby (Erikssoni). Large fairly compact rose. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50.

Apple Blossom (Erikssoni). Light apple blossom pink; varies some in color. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50.

***Baby Alba** (Erikssoni). Good size, clear white. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50.

Wadenswil Salmon. Very good bright salmon rose, compact and excellent for pots. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50.

Weihenstephan. Clear attractive salmon pink. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00.

Mixture. Carefully balanced mixture of best of above colors. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

The Malacoides class are half hardy so they don't like a warm house.



The demand for white flowers is reflected in the popularity of this color in Malacoides Primula.

CHINESE (Sinensis)

(18,000 seeds per ounce)

There is a wide and attractive range of colors in this class; also easily grown and popular with retail growers, but flowers shatter too easily for much handling or shipping. Sow during May or June for strong 5 in. Xmas plants. New seed crop ready Sept.—Oct., and fresh usually germinates around 50-60% getting down to half that in one year.

***Dazzler.** Vivid orange red. Outstanding color in this class. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50.

Chiswick Red. Rich bright red.

Coerulea. Very excellent light blue.

Defiance. Deep red, dark center; fine.

Duchess. White with attractive Tyrian rose center.

Gigantea Alba. Extra large clear white.

Heath Rose (New). Splendid bright rose-pink; fine compact habit.

Rose Queen. Large bright carmine rose. Excellent.

***Special Mixture.** Carefully balanced mixture of above.

All above except Dazzler priced at: Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.00.

Primula Kewensis (Not a Chinese Primula). Deep yellow winter flowering pot plant. 10 to 12 in., nice. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25.

Don't pass up the value of the several so-called Hardy Primulas such as Kewensis, Kleyni, and Veris strain such as Colossea for spring forcing; they are choice and colorful. Complete listing in perennial pages; except Kewensis above.

Calceolarias

About 20,000 seeds per $\frac{1}{32}$ oz.

Irresistibly attractive cool temperature pot plants. Not popular in our south because of their low temperature requirement. Finest plants we ever produced were in a house that could hardly be kept from freezing in severe weather. Seed is exceedingly small. No attempt should be made to cover it and if allowed to get dry or kept too constantly wet, it easily perishes. Also, instead of potting seedlings, we transplant to flats, later potting into 3's. Calceolarias respond favorably to electric light treatment. We run annual trials of all strains offered and inspect the growing crops.

HYBRIDA GRANDIFLORA

(Large Flowered varieties)

- ***Dwarf Tigered and Spotted Mixed.** Uniformly dwarf tigered and spotted mixture. Showy large flowers and attractive colors. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.
- Albert Kent.** Flowers golden-yellow with large red blotch on each. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50.
- Albert Kent Hybrids.** Intermediate in size of flowers. Very excellent color range. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00.
- ***Cloth of Gold.** Medium sized golden-yellow flowers very freely produced; dwarf and very showy. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.25.
- Kelway's Perfect Model.** We supply originator's seed of this well known strain. Wide range of colors and strong growth. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.25.
- Tigrina.** All flowers attractively tigered or spotted; medium size flowers and fairly tall growth. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50.
- ***Mixture of Grandiflora colors.** Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.
- Monarch Strain.** A strong growing, attractively colored Grandiflora mixture. About ten days later than regular mixtures but very fine. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.



This cut pictures three distinct classes of Calceolarias. On the right is the fairly tall, spotted Tigrina; the ever popular Multiflora Nana in the center, with a Dwarf Tigered Grandiflora on the left. Seed for these was sown early October, flowering in May.

MULTIFLORA NANA CLASS

Most popular for smaller pot plant sales; dwarf, free flowering and brightly colored.

- ***Multiflora Nana Mixture.** Most widely used. Uniformly dwarf and very attractive. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.00; $\frac{1}{64}$ oz., \$3.65.
- Golden Tiger.** Golden-yellow, richly spotted red; excellent. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.00; $\frac{1}{64}$ oz., \$3.60.
- Indian Prince.** Rich deep scarlet, of good multiflora nana habit. Throws a few golden-yellow rogues, but both are very attractive. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.15; $\frac{1}{64}$ oz., \$4.00.

RUGOSA TYPE

- ***Flower Cloud.** Bushy, showy specimen plants; flowers not large but very freely produced. Its Rugosa parentage gives it exceptional handling qualities. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$3.75.
- Perennial Hybrids.** A very small flowered type used for large exhibition work and for bedding in moderate climates. Tr. pkt., \$1.00.

Schizanthus

About 45,000 seeds per oz.

Schizanthus have more value for cutting than some retail growers appreciate. They outlast Peas for this purpose, but the flowers shatter too easily for much handling. Like Calceolarias, they are very much a cool temperature crop and for that reason, are not much noted in our south. A Jan. sowing will make choice 3 in. plants for spring combinations. An August sowing grown in a 45° house will make fine big 5 or 6 in. pot specimens in flower by Feb.

- ***Ball Brilliant Blend.** A carefully blended mixture of medium dwarf strains, all large flowered with fairly dark bright colors. Well suited to cutting; and if properly pinched, will make fine pot specimens. Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.15.
- ***Ball Dwarf Mixture.** Thru persistent plant selection work, we have been able to improve this strain both in trueness to type and also in darker and brighter colors. Quite distinctive and valuable as a pot plant, being about half the height of most strains. Particularly choice flowered in small sizes from a late summer or fall sowing. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.
- Dr. Badger's Improved Hybrids.** An extra large flowered strain with choice colors and medium dwarf habit. An excellent all purpose strain, being large enuf for pot plants and long-stemmed enuf for cutting. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00.
- Pansy-Flowered** (Danbury Park, originator's seed). The only true Pansy-flowered strain we have ever flowered. Comes about 95% true to large flat pansy-like flowers. Attractive soft pastel shades. Originator packets 75c each.
- ***Giant Blotched.** Noted for its brightly colored flowers, each having a bold dark center that contrasts well with the bright pink and rose shades that predominate. Two to three weeks earlier than most strains and effective as a pot plant if well pinched. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25.
- ***Monarch Strain** (Hurst). Extra large flowered, even some larger than Dr. Badger's. Has same desirable medium tall habit and choice range of colors; many bright rose shades. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.
- Bridal Veil.** Pure paper white and of medium tall habit. Tr. pkt., 35c; $\frac{1}{8}$ oz., 70c.



SCHIZANTHUS, Ball Dwarf Strain
The attractive form and free-flowering habit of these plants have increased their popularity every year since their introduction.

Both items on this page are strictly cool temperature plants.

BEGONIAS

FIBROUS ROOTED

(Semperflorens and Gracilis)

(About 30,000 seeds per $\frac{1}{32}$ oz.)

Widely popular and easily grown class for bedding and pot plants. They grow best in light material, well enriched with humus and in using them for bedding, this preference should, to some extent, be supplied. Where summers are moderate as in Europe, they do well for bedding in the open sun, but when used for this purpose where summers are long and hot, they should be sheltered some and watered when dry. In the form of small pot plants, these Begonias are choice material for sheltered window or porch boxes as well as combinations for which they are largely used. Nice 2½ in. plants are produced in around 3 months from sowing. The improvement in this class is toward dwarf, well rounded habit such as is found in Pink and Red Pearl; also Adeline, King of the Reds, Darling, Scandinavia, Glow, and Luminosa Compacta are of ideal habit for any purpose. However, some find the stronger and more upright growers well adapted to bedding purposes where conditions are trying.

***Adeline.** Extra dwarf small but free flowering bright pink. Closely resembles the distinctively compact habit and color of Pink Pearl. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.85.

Albert Martin. Large bright carmine. Tr. pkt., 50c; $\frac{1}{32}$ oz., 85c.

***Carmen.** The original bronze-leaved Begonia. Flowers a bright rose-pink contrasting nicely with the dark foliage. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.25.

Christmas Cheer. Fairly dwarf crimson scarlet. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.40; $\frac{1}{32}$ oz., \$2.25.

***Darling.** Bright clear pink under glass, deepening outdoors. Unusually compact habit and very large flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

Elegant. Unusually large soft pink flowers with luxuriant green foliage. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

Erfordia. Clear pink; free flowering. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50.

Essen. Fine bright rose-red with green foliage. Tr. pkt., \$1.00.

***Fire Sea** (Blaze of Fire). Large fiery red with green foliage. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.00.

Glory of Erfurt. Large bright carmine-rose. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.15; $\frac{1}{32}$ oz., \$2.00.

***Glow** (Glow). Showy red flowers with green foliage. Good pot plant habit. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.60; $\frac{1}{32}$ oz., \$3.00.

Gustav Knaake. Salmon-pink, resembling Melior. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50.

***Indian Maid.** Foliage a deep lustrous bronze with richly contrasting scarlet flowers. Outstanding for color effect; good dwarf habit. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

***King of the Reds.** Glowing red flowers, green foliage, and a vigorous but dwarf habit making it valuable for pots or border work. Very similar in color and dwarf compact habit to Red Pearl. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.85.

Lightning. Strikingly large carmine-scarlet flowers; deep green foliage. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.60.

Luminosa. Deep scarlet, reddish brown foliage; fine. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$1.75; $\frac{1}{16}$ oz., \$3.00.

***Luminosa Compacta.** Very dwarf, rather small but extra free flowering pot plant strain; approaches Red Pearl in habit and color. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

Mignon. Brilliant salmon-scarlet; semi-dwarf. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.75.

***Pink Pearl.** Same extra compact habit as Red Pearl, but flowers are a clear rose-pink. Tr. pkts., only, \$1.00.

Prima Donna. Light rose-pink shading to carmine outdoors; medium dwarf. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.15.

Radio. Quite large flowered carmine-scarlet. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.25.

***Red Pearl.** Bright scarlet flowers freely produced on extra compact plants; unusually dwarf habit. Tr. pkts., only, \$1.00.

Scandinavia. New large flowered pot plant strain; good bushy habit with attractive dark green foliage; attractive shade of pink. Tr. pkt., \$1.50.

Scarlet Queen. Large scarlet; bronze green foliage. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50.



The fibrous rooted Begonias reach their highest usefulness as pot plants for spring sales. Sow seed any time from May to December.

Snow. Pure paper white large flowered; good medium dwarf habit. Tr. pkt., \$1.00.

Tausendschoen. Fairly heavy growing deep rose-pink; large and free flowering. Tr. pkt., \$1.00.

Vernon. Deep blood-red and dark leaved; medium dwarf. Tr. pkt., 35c; $\frac{1}{16}$ oz., 75c.

***White Pearl.** We offer a particularly choice large flowered strain of this standard white. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.65.

Mixture. Of all colors in this class. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.00.

TUBEROUS ROOTED BEGONIAS

We call attention to the fact that most kinds in this class can be grown into 4 in. pot plants in 6 months from seed sowing; but Begonia seed is quite small and must be handled carefully.

Mrs. Helen Harms (Multiflora fl. pl.). A fine deep Primrose yellow, previously propagated only by cuttings. Flowers double and about 1 in. across; quite attractive. Tr. pkt., \$1.00.

***Multiflora Nana Mixed.** Pleasing mixture of small but freely produced double flowers; similar in type to Helen Harms. Tr. pkt., \$1.00.

Narcissus-Flowered. Flowers closely resembling Narcissus and about 3 in. across. Attractive mixture. Tr. pkt., \$1.00.

Large Flowered Single Mixed. Attractive shades of orange, rose, scarlet, etc. Quite large flowered; from 3 to 4 in. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.25.

Large Flowered Double Mixed. Not quite so large as above but fully double flowers. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.50.

***Lloyd Mixed.** Of graceful pendulous habit. Nice 4 in. plants mature in 6 to 7 months from the sowing of seed. Flowers double, about 2 in., and in shades of scarlet, salmon, and white. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$3.00; $\frac{1}{64}$ oz., \$5.00.

Lloyd Red Shades. Similar to above but shades of scarlet. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$3.75.

Rex Hybrids. Ornamental leaved mixture of Rex Begonias; many unusual variations. Seed is small and must not be covered. 500 seeds, \$1.50; 1,000 seeds, \$2.85.

Semperflorens begonias, so readily grown thru seed, make attractive small pot plants.

Annual Larkspur

(8,000 seeds per oz.)

Long stems and choice colors explain the increasing interest in this half hardy annual. A Jan.-early Feb. sowing grown on a raised bed, 45-48° house should get in for Mother's Day, with long enuf stems for any purpose. Also, it grows along fast enuf to resist rot better than a fall planting that must go thru the depth of winter and that usually makes an unnecessary amount of growth. Much sowing is also done around March 1 to grow into young plants for outdoor planting. Such a start, of course, produces an earlier crop than a later outdoor sowing which makes it pay out very well. In sections further south than we are, such a start might not pay so well because of early crops from fall sowings that make established plants before winter sets in.

Don't overenrich the soil for this crop to the extent of producing soft growth because such growth clearly is more susceptible to rot than when it remains more firm as, in moderately enriched soil. After the crop gets well into growth, top dress with a balanced fertilizer; this puts life and color into it. Also profitable results are more certain if watering can be done if or when needed.

California seed growers, who produce most of the world's Larkspur seed, are exceedingly active in the improvement of this crop. New varieties come to us annually and in our greenhouses will be found tests of all of them. Needless to say, such as are substantial improvements are offered by us. Varieties marked * we find the best both thru general demand and our greenhouse trials.

BASE BRANCHING OR IMPERIAL VARIETIES

The preferred type for cut flowers.

***Blue Bell.** Clear mid-blue; excellent.

***Blue Spire.** Strong deep violet blue.

Carmine King. Carmine-rose.

Daintiness. Rather light lavender shade; we prefer Sweet Lavender.

Dazzler. Fine large carmine-rose; more uniformly deep carmine color than Carmine King.

Exquisite Pink Improved. Fine soft pink.

***Gloria Improved.** Bright rose-pink; the preferred rose.

***Lilac Queen.** Rich lilac-lavender.

Los Angeles Improved. Bright salmon-rose; fine habit.

Miss California. Pink shaded salmon.

***Sweet Lavender.** Clear, even lavender color; fine strong spikes and large double flowers.

***White King.** Finest white; large flowered and pure color.

White Spire. Good white.

Formula Mixture. Specially blended of good cut flower colors in above list.

Prices on all above varieties and Formula Mixture: Tr. pkt., 25c; ¼ oz., 35c; ½ oz., 60c; 1 oz., \$1.00; 1 lb., \$10.00. 4 ozs. of any one variety at lb. rate.

Rosalind. (New). Originator's description: "Rose with light salmon diffusion; more shatter proof than other varieties and extra strong growing." Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.65.

STOCK-FLOWERED VARIETIES

Dark Blue. A rather deep but bright shade.

***Lilac Supreme.** A bright strong shade of lilac; excellent.

Lilac Imp. Pleasing shade of lilac.

Los Angeles. Bright salmon-rose.

***Rosamond.** Deep rose; excellent.

Rose Queen. Very attractive rose-pink.

Sky Blue. Good light blue.

White. Prefer White King.

Formula Mixture of the above.

Prices on all above varieties and Formula Mixture: Tr. pkt., 20c; ½ oz., 30c; 1 oz., 50c; 1 lb., \$5.00. 4 ozs., of any variety at pound rate.

GIANT HYACINTH-FLOWERED

Produces one long non-branching spike. Fine for long stemmed cut flower purposes. Germination somewhat uncertain.

Larkspur seed germinates poorly or not at all in a high temperature.



Showing why the new Imperial or Base-Branching varieties are preferred for long-stemmed cutting.

Dark Blue, Lilac, Pink, Purple, White. Each: Tr. pkt., 25c; ¼ oz., 30c; ½ oz., 50c; 1 oz., 80c; 1 lb., \$8.00. 4 ozs. of any one variety at lb. rate.

Mixed: Tr. pkt., 15c; ½ oz., 30c; 1 oz., 55c; 1 lb., \$5.50.

DWARF EMPEROR TYPE

Less than half the height of the regular cut flower kinds and much used for bedding.

Ageratum Blue. Well named and a pleasing color. Tr. pkt., 25c; ½ oz., 40c; 1 oz., 75c.

Enchantress. Pleasing salmon-pink. Tr. pkt., 35c; ½ oz., 80c; 1 oz., \$1.50.

Pink Delight. Rich rose-pink. Tr. pkt., 25c; ½ oz., 40c; 1 oz., 75c.

Mixture of all colors in this type. Tr. pkt., 20c; ½ oz., 35c; 1 oz., 60c.

BALL Calendula

(3,000 Seeds
per Ounce)

Ease with which Calendula are grown probably explains why they are sometimes not profitable for the market grower. But with the retail grower, it's different. They provide colorful flowers freely. If grown quite cool with plenty of air and in a fairly rich soil, they will not droop. When a prolonged period of dark weather sets in during mid-winter, soft growth can't be helped with any greenhouse cut flower crop and under such conditions Calendula should be run as cold as possible. A sowing during January or February will provide an easily grown crop of flowers during the spring months and they will hold up because of the much more favorable growing conditions of that season. Our cut flower varieties come nearly 100% double under favorable conditions. Any form of check in growth tends to harden and throw it into the production of singles. That is why they single out to but one row of petals during the heat of summer. The same plants will get into full double production with cool fall weather. The check the plants receive thru cutting down a heavy crop will also result in some singles even under otherwise favorable conditions.

FORCING VARIETIES

NOTE: Our strains of Ball Calendula are to be had only in our packets.

Prices (EXCEPT MIXTURES): Tr. pkt., 40c; 1/4 oz., 60c; 1 oz., \$2.00; 2 ozs., \$3.50; 4 ozs., \$6.50; 1 lb., \$20.00.

Prices on weight lots will be accepted on 2 or more varieties together. For instance, on 1/4 oz. each of 4 varieties, instead of allowing 60c each, the ounce price of \$2.00 will be accepted, or, 1 oz. each of 4 different varieties should be priced at \$6.50.

***Ball Improved Long Orange.** (New.) Attractive bright golden orange with light eye; a clearly lighter color than our regular Long Orange; outstandingly long stemmed and large flowered.

***Ball Long Orange.** The original deep intense orange with light center. Long stemmed and large flowered.

Ball Sensation. Similar to our Ball Long Orange.

***Ball Masterpiece.** Long stemmed clear deep orange with brown center. Attractively contrasting colors and free flowering habit.

Ball Supreme. Similar to Masterpiece, but not quite so deep a color and as large a flower. Outstanding for free flowering habit.

***Ball Gold.** Extra long stemmed, large deep golden yellow; light eye. Nice.

***Ball Lemon Queen.** Deep lemon yellow with attractive brown eye; our most popular yellow.

Most profitable Calendula are flowered during mid-winter from August sowing.



Our name is inseparably associated with cut flower Calendula thru having originated and introduced all of them

Ball Apricot. Light straw or buff color with showy dark center; some color variation but attractive.

Ball Formula Mixture. Carefully made up of the above varieties with fully half orange. Intended for retail growers.

Ball Art Shades Mixture. Many original and interesting color variations, many being new in Calendula and hard to "true up".

Prices on BOTH above MIXTURES: Tr. pkt., 35c; 1/4 oz., 50c; 1 oz., \$1.50.

CALENDULA FOR BEDDING

The following varieties are not as long stemmed or large flowered as the above and are used for bedding work in favorable climates.

***Orange Shaggy.** Petal tips of this bright orange variety are finely fringed giving it a distinctive appearance. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 65c.

***Apricot Queen.** An apricot-buff with petal tips attractively flecked orange. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.10.

Frilled Beauty. New deep orange, attractively frilled. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

Sunshine. Chrysanth. Loose petaled bright yellow; upright growth with fair stems. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

Prices on the following, each: Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.75; 1 lb., \$5.25.

Radio. Bright orange, quilled petals, quite attractive.

Radio Golden Beam. Clear yellow Radio.

Orange King. Dark centered deep orange; for bedding.

Lemon Queen. Light lemon yellow; somewhat taller in growth.

Ball Bedding Mixture. Well proportioned mixture.

MISCELLANEOUS ANNUALS

R Indicates varieties suitable for rock garden work.
(*) Indicates varieties most dependably satisfactory in our experience and observation.

How Many Seeds Per Ounce?

In reply to numerous requests we include with this catalog again the number of seeds per ounce of important items listed. For example: **Abutilon Mixed**—850 S. means 850 seeds per ounce. The figures are conservative and will vary with the season. Also note that it must include a varying percentage of immature seeds that are an inseparable part of most varieties. For this reason these figures must **not** be accepted as indicating the number of plants to be expected. Under favorable germinating conditions most large seeds will germinate 50 to 60 per cent. Most annuals will run some higher. Quite small seeds are more easily destroyed, therefore require more careful attention and the germination percentage is usually lower.

ABRONIA

Umbellata. (Sand Verbena). 1600 S. A creeping or trailing annual producing attractive heads of pink flowers thruout the summer season. Grows well in dry, hot locations. Our spring-sown trial ground row measured 4 in. high and spread to 24 in. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 65c.

ABUTILON

Giant Flowered Mixed (Hyb. Maximum). 850 S. (Flowering Maple). Ours is the extra large early flowering strain. Attractive for pot, conservatory, or bedding where climates permit. Tr. pkt., 35c; ⅓ oz., \$1.25.

ACHIMENES

Mixed. Very attractive pot or hanging basket plant for warm houses. Very fine seed. Tr. pkt., \$1.00.



Acroclinium Giant flowered strain.

ACROCLINIUM

New Hybrids. 8500 S. An attractive Strawflower for spring cutting. Ours is the extra large semi-double strain. Choice bright colored flowers with dark "eyes." Tr. pkt., 15c; ¼ oz., 30c; 1 oz., 85c.

Permanent success in selling flowers, seeds or plants calls for practical information about them, plus courtesy.

AGATHEA

Coelestis. (Felicia amelloides or Blue Daisy). 27,000 S. 30 in. Tall blue daisy for greenhouse and conservatories. Seed of irregular and slow germination. For the dwarf blue daisy see Felicia Bergeriana, page 32. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

AGERATUM

MEXICANUM. 200,000 S. Most seed-produced strains vary some in habit.

***Blue Ball.** 6-10 in. Our most even large flowered strain. Tr. pkt., 15c; 1 oz., 75c.

Blue Cap. 6-12 in. Medium large flowered. Fairly even. Tr. pkt., 25c; ¼ oz., 80c; 1 oz., \$3.00.

Blue Perfection. 10-15 in. Large flower heads; light blue. Tr. pkt., 15c; 1 oz., 85c.

Imperial Dwarf White. 10-12 in. Fairly even medium sized white. Tr. pkt., 15c; 1 oz., 60c.

Little Blue Star. 8-10 in. Small flowered light blue. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Little Dorrit Blue. 8-12 in. Quite small flowered light blue. Tr. pkt., 15c; 1 oz., 75c.

Little Silver Star. 10 in. Dwarf, small flowered silvery white. Tr. pkt., 30c; ¼ oz., 90c.

Purple Perfection. 5 in. Very dwarf restricted growth and late flowering. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 90c.

Red Riding Hood. 6-10 in. Even small flowered pink with red center. Tr. pkt., 35c; ⅓ oz., 75c.

Tall Blue. 24 in. Large flowered even strain for cutting. Tr. pkt., 15c; 1 oz., 40c.

ALOE

***Variegata.** (Tiger Aloe). A very popular and generally satisfactory house plant. Attractive variegated succulent leaves. Nice 1 and 2 in. pot plants produced in 1 year from seed sowing. 100 seeds, \$1.25; 1000 seeds, \$9.00.

ALYSSUM

5500 S. According to our annual trials, the following are the finest reselected strains available.

***Carpet of Snow.** (Procumbens Snowcloth). Well named, very dense flat masses of white flowers, 3 to 4 in. high by 8 in. wide. Exceptionally even strain. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c; 4 oz., \$2.25.

***Violet Queen.** (New). A true deep lilac Alyssum of the dwarf, compact type found in Lilac Queen but much deeper in color. Anyone who uses Lilac Queen should try this new deep variety. Tr. Pkt. 25c; ¼ oz. 50c; 1 oz. \$1.75.

***Little Gem.** 5 in. Dense flower heads but not spreading. Tr. pkt., 15c; 1 oz., 50c; 4 oz., \$1.75.

Lilac Queen. 5 in. Same as above but light lilac turning deeper in fall. Tr. pkt., 15c; 1 oz., 50c.

Maritimum (Sweet Alyssum). 10 in. Medium tall strain. Tr. pkt., 10c; 1 oz., 25c; 4 oz., 60c.

For Perennial Alyssum, see page 43.

AMARANTHUS

28,000 S. Attractively variegated leaved varieties preferring dry, open locations.

Molten Fire. 4 ft. Deep red variegated foliage. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Salicifolius. 30 in. (Fountain Plant or Willow Leaved Amaranthus). Attractively curled and twisted narrow deep bronze leaves. Tr. pkt., 15c; 1 oz., 75c.

MISCELLANEOUS ANNUALS—Continued

ANCHUSA

Blue Bird (Capensis). 1100 S. Attractive deep Forget-Me-Not blue flowers. 18 to 24 in. Tr. pkt., 15c; 1 oz., 60c.
For **Perennial Anchusa**, see page 43.

ANTHEMIS

***Arabica**. An attractive symmetrical plant covered with bright yellow, daisy like flowers. Our trial ground row reached a height of 18 in. by 24 in. wide from an April 5th sowing. Very early and free flowering. Should make a colorful bedding or border plant.
Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.25.

ARCTOTIS

Breviscapa Aurantiaca. 7700 S. 6 in. Single daisy-like orange flowers with dark centers.
Tr. pkt., 35c; 1/4 oz., 65c.
Grandis. 25,000 S. 2 to 3 ft. Single silvery white flowers with lilac shading and dark center.
Tr. pkt., 15c; 1 oz., 50c.

ASPARAGUS

750 S. Our seed comes from a California specialist and germinates 65-75%. New crop available about Feb. 1st. Must have at least 65 deg. soil temperature for proper germination.

Plumosus.
Sprengeri.

Prices on above: 100 seeds, 25c; 250 seeds, 40c; 1000 seeds, \$1.00; 5000 seeds, \$4.50; 1 lb. \$8.00.

For hardy **Asparagus Verticillatus**, see page 44.
For **Baby's Breath**, see Gypsophila page 33.

BALSAM 3300 S.

***DOUBLE BUSH FLOWERING**. 15 in. Because flowers are produced above the foliage, this class is by far the most attractive and showy for most kinds of work. May be sown direct as late as mid-June for August flowering. Following strains are absolutely even in habit.

Cinnabar. A rich deep salmon-scarlet.

Rose. A pleasing pastel rose-pink.

Scarlet. Bright color.

Mixture of all colors in this class.

Each: Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

Double Camellia-flowered Mixture. 24 in. Attractive brightly colored mixture. Tr. pkt., 15c; 1 oz., 60c.

For **Bachelor Button**, see Centaurea Cyanus, page 30.

For **Ornamental Banana**, see Musa, page 36.

For **Blue Lace Flower**, see Didiscus, page 32.

BRACHYCOME

IBERIDIFOLIA. (Swan River Daisy). 140,000 S. 6 to 8 in. plants bearing small single flowers quite freely. Nice for edging.

Azure Fairy. Azure-blue, the most popular color.

Tr. pkt., 15c; 1 oz., 85c.

Mixture of all colors in this class.

Tr. pkt., 15c; 1 oz., 75c.

BROWALLIA

65,000 S. Fine winter and spring pot plants. Nice also in beds and borders with some shade.

Speciosa Major. 10 in. Standard blue variety.

Tr. pkt., 35c; 1/16 oz., \$1.00.

Speciosa Major Alba. White form of above.

Tr. pkt., 50c; 1/64 oz., \$1.50.

Viscosa Compacta Sapphire. More compact than above with a profusion of small attractively light eyed flowers.

Tr. pkt., 35c; 1/16 oz., \$1.00.

To accomplish anything worth while, you will have to work more than 40 hrs. a week.

CACALIA

Coccinea (Tassel Flower). 56,000 S. Small light fiery scarlet flowers on 30 in. stems. Very easily grown and free flowering.
Tr. pkt., 15c; 1 oz., 50c.

For **California Poppy**, see Escholtzia page 32.

CALLA

Elliottiana. 450 S. The yellow Calla Lily. Seed germinates readily but requires two years' growth to flower.
Tr. pkt., 50c; 1/4 oz., 85c; 1 oz., \$2.75.

CALLIOPSIS

90,000 S. Very free flowering dwarf bedding plants.

Drummondii, Golden Wave. 12 in. Semi-double strain. Flowers 1 in., golden yellow with dark eye.

Tr. pkt., 10c; 1 oz., 20c.

Dazzler. 6 to 8 in. Rich maroon margined golden yellow. Very bright combination. Tr. pkt., 15c; 1 oz., 50c.

Dwarf Mixture. 6 to 8 in. Attractive dwarf compact mixture of yellow and red shades.

Tr. pkt., 15c; 1 oz., 30c.

CAMPANULA (Annual)

50,000 S. These strains flower 6 months from sowing.

Annual Canterbury Bells Mixture. 2 ft. An annual variety of this well-known single type. Tr. pkt., 15c; 1/4 oz., 20c; 1 oz., 65c.

Fragilis. Of graceful pendulous habit suitable for pots and hanging baskets; azure-blue. Tr. pkt., 50c; 1/2 oz., \$1.15.

For **Perennial Campanulas**, see pages 44 and 45.

CANDYTUFT 9,500 S.

HYACINTH-FLOWERED.

***Giant White** (Ball Strain). We continue to handle exclusively our own greenhouse bred strain that is unsurpassed for uniformity and large flowers. Grown from our own plant selection stock seed every year.

Tr. pkt., 20c; 1/2 oz., 40c; 1 oz., 75c; 4 ozs., \$2.35; 1 lb., \$7.50.



As they show up in our out-door trials. Sapphire much better foliage, but not as free flowering. Both make fine early spring pot plants.

MISCELLANEOUS ANNUALS—Continued

CANDYTUFT—Continued

Miniature Gem. A nice very early flowering rock or border plant. Same as above but 4 in. high. White.

Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

UMBELLATA. A popular spring cut flower. Sow in January, plant out 8 x 10 in. The starred (*) varieties we find best for market growing.

* Carmine	Flesh-Pink	* Rose Cardinal
Crimson	* Lavender (Lilac)	White

And our special **Formula Mixture.**

Each: Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.00.

Dwarf Hybrids Mixture. An attractive 3 to 4 in. miniature of above. Very early. Tr. pkt., 15c; 1 oz., 50c.

For **Perennial Candytuft**, see *Iberis*, page 47.

CARNATION

14,000 S. From an early sowing planted outdoors, preferably under cloth protection, and disbudded, these strains, with the exception of Engelmann's, will produce a nice crop of summer Carnations for cutting. Some supporting necessary.

Engelmann's Gold Medal Mixture (Perpetual Flowering).

Shouldn't be confused with the following strictly outdoor varieties. A hybrid mixture of the Perpetual or greenhouse types containing many original colors. We handle only the originator's seed.

Originator's pkt., \$1.50.

Marguerite Double Mixture. 15-20 inch. A very free flowering summer carnation. Ours is a reselected strain of this old garden favorite.

Tr. Pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***CHABAUD'S GIANT IMPROVED STRAIN.** Our trials this summer favored this new reselected type to all others for greater percentage of large fully double flowers and trueness to color.

* Cardinal Red	Deep Salmon	* White
(Sparkler)	(Aurora)	(Jeanne Dionis)
Crimson	Flesh-Pink	Yellow
(Blood Red)	(Reine Rose)	(Marie Chabaud)
* Deep Rose		Formula Mixture of all
(Rose Queen)		colors in this class.

Each: Tr. pkt., 30c; ¼ oz., 65c; 1 oz., \$2.25.

ENFANT DE NICE. A fine standard strain.

Red, Rose, Salmon, White, Formula Mixture

Each: Tr. pkt., 50c; ½ oz., \$1.00.

Aurora, Deep salmon rose. Tr. pkts. only 50c.

For the hardy **Carnation Grenadin**, see page 45.

For **Castor Bean**, see *Ricinus* page 38.

CELOSIA

28,000 S. Easy to grow, fine for spring pot plants, beds, and borders as well as showy mass effects, all characterize Celosia and help to explain the rapid increase in popularity of this showy annual. For outdoor bedding and border work, seed may be sown direct as soon as warm weather sets in, or sown in pots earlier for transplanting. Recently introduced strains, especially in the dwarf classes, are very uniform in habit.

Spicata. 5 ft. Very narrow upright row. Bright rose flowers that dry well.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Plumosa. Plumed or feathery type producing spire-like branches mostly from base of plant. The new dwarf varieties are finding wide use both for bedding and as spring pot plants. The taller strains are very showy and may be used for cutting.

***Dwarf Fiery Feather** (Pyramidalis). 12 in. Very attractive pyramid formation with fiery red spires. The standard variety.

***Dwarf Golden Feather** (Pyramidalis). 15 in. Same as above but slightly taller and golden yellow.

Each: Tr. pkt., 25c; ½ oz., 60c; ½ oz., \$2.00.

Flame of Fire. 14 in. A fine dwarf compact strain. More solidly compact than above and some later flowering. Must be started early.

Tr. pkt., 30c; ¼ oz., \$1.00.

Dwarf Fiery Feather Celosia has possibilities for North and South that are worth studying.



Fiery Feather Celosia

Tall Scarlet Plume. 4 ft. Brilliant crimson-scarlet. Very colorful for fall borders and for cutting.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Tall Golden Plume. Same as above except in color.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Thompsoni Magnifica. Ours is a fine even strain of this popular variety with a complete color mixture.

Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

CRISTATA. The popular Cockscomb type. After extensive trials the past season, we have found reselected strains in the dwarf type that are uniformly large combed and of even dwarf habit. Fine for specimen pot work in spring.

***Dwarf Empress.** 12 in. Large crimson combs with deep reddish leaves. Tr. pkt., 25c; ½ oz., 65c.

***Dwarf Golden Yellow.** 12 in. Yellow combs with light green foliage.

Tr. pkt., 25c; ½ oz., 50c.

Glasgow Prize. (Pres. Thiers). 12 to 15 in. Deep crimson combs set in bright green leaves.

Tr. pkt., 25c; ½ oz., 65c.

***Dwarf Mixture.** 15 in. A choice mixture of all colors in this class with both light and dark foliage.

Tr. pkt., 25c; ½ oz., 65c.

***Royal Velvet.** (New—Received honorable mention in '38 All America trials). An absolutely uniform strain of semi-tall "Cockscomb" Celosia. Crimson combs borne well above foliage on 24 to 30 in. stems. Reddish green foliage. Fine for cutting or decorative work.

Tr. pkt., 25c; ¼ oz., 90c; 1 oz., \$3.25.

Tall Mixture. 40 in. Mixture of all colors in the tall class.

Tr. pkt., 15c; 1 oz., 65c.

CHILDSII. Chinese Woolflower. An attractively different type with knobs or ball-like formations on the end of each branch. 80% true.

Crimson **Rose** **Mixture**

Each: Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

CENTAUREA

Suaveolens (Yellow Sweet Sultan). 6700 S. Similar to the Imperialis type but not quite as tall and earlier flowering. 18 in. high, thistle-like flowers, bright yellow. Forces well indoors.

Tr. pkt., 15c; 1 oz., 40c.

MISCELLANEOUS ANNUALS—Continued

CENTAUREA—Continued

CYANUS. (Bachelor Button or Cornflower). 6500 S. Very free flowering; useful either for spring forcing (responds well to electric light treatment) or for June and July flowering outdoors from a fall sowing. We list only the new reselected strains.

***Blue Boy.** The standard market color.

Black Boy. Deep maroon.

Red Boy. Carmine-rose.

***Pinkie.** Attractive rose.

Snow Man. Pure white.

Formula Mixture of all colors in this class.

Each: Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.30; 1 lb., \$4.00.

Jubilee Gem. The new dwarf compact strain for pots and bedding. 12 to 15 in. Deep blue flowers.

Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

IMPERIALIS (Sweet Sultan). 7500 S. Thistle-like flowers, larger than the Cyanus type.

Amaranth Red

Brilliant Rose

Delicate Lilac

Deep Lavender

White

Formula Mixture

Each: Tr. pkt., 15c; 1 oz., 50c.

AMERICANA. 2400 S. Still larger than the Imperialis. Valuable for retail growers but doesn't stand shipping well.

Lilac, the preferred color.

White, and **Mixture** of the two colors. Tr. pkt., 15c; 1 oz., 50c.

DUSTY MILLERS. The white-leaved kinds for border work. Cineraria Maritima Diamond also belongs in the Dusty Miller group. See next column.

Candidissima. 7500 S. 6 in. The slow growing kind that must be started early. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

Gymnocarpa. 7300 S. 24 in. Heaviest and most rapid grower of the Dusty Millers. Tr. pkt., 15c; 1 oz., 50c.

For the hardy **Centaurea Montana**, see page 45.

For **Chinese Forget-me-not**, see Cynoglossum, page 31.

CHRYSANTHEMUM (Annual)

9000 S. A valuable after 'Mum crop. Should be spaced at least 12 x 12 in. Respond especially well to electric light forcing. Germination apt to be slow and irregular.

Burridgeanum (Carinatum). White with crimson zone and brown eye.

***Northern Star** (Carinatum). White with yellow zone, brown eye.

Eastern Star (Segetum). Pale lemon, golden zone with brown eye.

Evening Star (Segetum). Golden-yellow with yellow eye.

***Eldorado** (Segetum). Golden-yellow with brown eye.

Gloria Alba (Segetum). White with yellow zone and yellow eye.

Morning Star (Segetum). Lemon with yellow zone yellow eye.

Mixture of all colors in this annual cut flower type.

Each: Tr. pkt., 15c; 1 oz., 25c.

For **Hardy Chrysanthemum**, see page 45.

CINERARIA

A June sowing will make 5 in. pots for Xmas. The following comprises "All the Best" in varieties taken from our extensive annual trials.

BERLIN MARKET. 110,000 S. Medium large flowered; fairly dwarf.

Dark Blue

Dark Crimson

Each: Tr. pkt., 50c; 1/64 oz., \$1.25.

***Weissensee Strain** Mixed.

Tr. pkt., \$1.00; 1/64 oz., \$1.60; 1/32 oz., \$2.75.

HYBRIDA GRANDIFLORA. 110,000 S. Large flowered fairly tall strain for large specimens.

Azurea. Azure blue.

Kermesina. Crimson.

Sanguinea. Deep velvety crimson.

Each: Tr. pkt., 75c; 1/64 oz., \$2.00.

Gigantea. Crimson with white eye.

Tr. pkt., \$1.00; 1/64 oz., \$2.25.

***Dwarf Mixture.** (Grandiflora Nana). Same type and colors as above but considerably dwarfer habit. Tr. pkt., \$1.00; 1/64 oz., \$1.75.

CINERARIA—Continued

MULTIFLORA NANA. 150,000 S. Small flowered and very dwarf. Fine for small pots.

Dark Blue

Dark Crimson

Each: Tr. pkt., 50c; 1/64 oz., \$1.75.

***Mixture** (Gold Centered Strain). An attractive mixture of all colors in this dwarf class, nearly all flowers being of the attractive gold-centered type.

Tr. pkt., \$1.00; 1/32 oz., \$2.00.

MISCELLANEOUS STRAINS.

***Cremer's Prize Strain Mixture.** 150,000 S. Medium to small flowers in large wide heads. The standard market strain.

Tr. pkt., \$1.50; 1/64 oz., \$2.25; 1/32 oz., \$4.00; 1/16 oz., \$7.50.

***Cremer's & Berlin Market Strains Mixed.** Combines our two biggest selling strains in equal proportion.

Tr. pkt., \$1.00; 1/64 oz., \$1.75.

Eriksson's Private Stock. A Chicago grower's Berlin Market strain. Tr. pkt., \$1.00; 1/64 oz., \$1.75.

***Siter's Rainbow Strain.** Attractive light-eyed strain, dwarf.

Tr. pkt., \$1.00.

Stellata Mixture. Small star-shaped flowers; tall growth.

Tr. pkt., 50c; 1/32 oz., \$1.25.

Giant Exhibition Mixture. (Howard and Smith strain). Our largest flowered and strongest growing strain. For large exhibition work only.

Tr. pkt., \$1.00; 1/64 oz., \$2.75.

Plenissima Double Mixed. Round, ball-shaped double flowers. Of limited commercial value. Tr. pkt., 50c.

DUSTY MILLER.

***Maritima Diamond.** 10 in. Our finest Dusty Miller strain. Very white foliage and compact even growth.

Tr. pkt., 15c; 1 oz., 50c.

CLARKIA

ELEGANS DOUBLE. 90,000 S. A popular spring cut flower. Should be sown in January and grown in shallow flats, supported and disbudded to 2 or 3 spikes for long-stemmed flowers. Keep fairly dry after plants are about a foot high and don't feed.

Albatross. The best white.

***Enchantress.** Pleasing shade of salmon-pink.

Apple Blossom. Light pink.

***Brilliant.** Bright deep rose.

***Orange King.** Excellent fully double orange-scarlet.

Good market color.

***Salmon Queen.** Medium light salmon-pink.

Mixture of all colors in this class.

Each: Tr. pkt., 15c; 1 oz., 65c.

COBAEA

SCANDENS. 375 S. A fine strong growing annual climber.

Purple. The preferred color. Tr. pkt., 15c; 1 oz., 50c.

White. Tr. pkt., 20c; 1 oz., 80c.

COLEUS

HYBRIDA. 110,000 S. Although no evenness in color can be expected from seedling Coleus strains, they are easy and cheap to raise from a January sowing for spring combination work. Their infinite variation makes them attractive for this work as well as a source of choice variations that can be cutting-propagated.

Giant Exhibition Mixture. Our finest large leaved strain from standpoint of great and brilliant color variation.

Tr. pkt., 75c; 1/32 oz., \$1.75.

***Rainbow Mixture.** A very excellent and our most popular strain.

Tr. pkt., 35c; 1/16 oz., \$1.00.

Hybrida Mixture. Tr. pkt., 35c; 1/8 oz., 60c; 1 oz., \$3.50.

CONVOLVULUS (Morning Glory) 1400 S.

Major Mixed. Tall or climbing variety.

***Minor Mixed.** 12 in. A dwarf, fairly compact grower with very attractive bright blue flowers. Early flowering.

Each: 1 oz., 10c; 1 lb., 85c.

For **Japanese** and other **Morning Glories**, see Ipomoea, page 34.

There is a practical reason for the increasing interest and numbers of florists' short courses.

MISCELLANEOUS ANNUALS—Continued

COSMOS

SENSATION. 5000 S. A most outstanding introduction to this old-fashioned garden flower, making its extra large fine flowers available for greenhouse cutting as well as outdoor growing in even our most northern climates. Fully as early as the Early Express and as large flowered as the late Giant strains.

Pinkie. Pink. **Purity.** White.

Each: Tr. pkt., 25c; ¼ oz., 35c; 1 oz., \$1.00.

Mixture of above varieties.

Tr. pkt., 20c; ¼ oz., 30c; 1 oz., 80c.

EXTRA EARLY EXPRESS. 5000 S. Flowers in 45 days from an outdoor sowing.

Pink **White** **Mixture** of all colors.

Each: Tr. pkt., 15c; 1 oz., 65c.

EARLY SINGLE MAMMOTH FLOWERED. 5000 S. Ours are reselected strains in this standard large flowered class.

Crimson Queen **Rose Queen** **White Queen**

Queen Mixture of above colors.

Each: Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

EXTRA EARLY DOUBLE ANEMONE-FLOWERED OR CRESTED. 5000 S. Produces around 60% large crested flowers.

Carnelia, crimson; **Peach Blossom,** pink; **Whirlwind,** white;

Mixture.

Each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

GIANT FLOWERED LADY LENOX. 5000 S. The extra large flowered late blooming class.

Pink **White** **Mixture**

Each: Tr. pkt., 15c; 1 oz., 25c.

HYBRIDA KLONDYKE. 2800 S.

***Orange Flare.** Very early and free flowering and a fine bright orange color. Flowers with the Sensation type.

Tr. pkt., 25c; ¼ oz., 35c; 1 oz., \$1.00.

Orange. The original extra late flowering orange variety.

Tr. pkt., 15c; 1 oz., 75c.

CUPHEA

Firefly. 7000 S. A very attractive spring pot plant that may be planted out for bedding and border work. Our trials of it the past two seasons from a March sowing reached a height of 12 in. and covered themselves with small bright scarlet flowers thruout the summer. Of dense compact growth.

Tr. pkt., 35c; ⅓ oz., 85c.

CYCLAMEN

We handle exclusively the famous Binnewies' Strain. Prices shown below are net, no cash discount.

	100 Seeds	1000 Seeds	5000 Seeds
No. 1. Dark Blood-Red	\$1.25	\$11.00	\$50.00
No. 2. Bright Red	1.25	11.00	50.00
No. 3. Pure Rose	1.25	11.00	50.00
No. 4. Soft Rose with carmine eye. (Improved Rose of Marienthal).	1.25	11.00	50.00
No. 5. White with carmine eye.	1.25	11.00	50.00
No. 6. Pure White	1.25	11.00	50.00
No. 7. Bonfire. Brilliant salmon.	1.85	16.50	76.00
No. 8. Salmon-Scarlet. (America Improved).	2.20	17.50	80.00
No. 9. New Salmon-Rose Improved.	1.65	14.50	65.00
No. 10. Glory of Wandsbek (Perle of Zehlendorf) Dark salmon.	1.65	13.00	60.00
No. 11. Rose of Zehlendorf. Light salmon.	1.65	13.00	60.00

Cyclamen will always remain a popular pot plant, especially with select trade.

CYCLAMEN—Continued

No. 12. Orange Beauty.

Orange-vermilion. \$2.00 \$18.50 \$86.00

No. 14. Morning Red 1.75 14.25 66.00

No. 15. Saffron-Red 1.55 12.00 55.00

No. 16. Saffron-Red. Silver Edge. 1.85 16.50 76.00

No. 17. Striata. Mixed. 1.55 12.00 55.00

No. 18. Mozart. Deep pink. 2.00 18.50 85.00

No. 19. Lavender 1.25 11.00 50.00

No. 20. New Ruffled. Especially attractive class. 2.20 20.50 94.50

No. 21. Pink Pearl. Salmon-pink. 2.00 18.50 88.00

Cristata. Pure white feathered. 1.75 14.50 66.00

Mixture of above colors. 1.25 11.00 50.00

VOGT'S DOUBLE STRAIN.

We handle only Mr. Vogt's seed of this attractive double type.

Cerise Brilliant. Rich cerise-red.

Prosperity. Flaming rich rose.

Admiration. Salmon-rose with shaded eye.

Rosea. Soft rose shading light at tip of petals.

Mixture of all above colors.

All above priced at: 100 seeds, \$2.50; 250 seeds, \$5.75; 500 seeds, \$10.75; 1000 seeds, \$20.00.

CYNOGLOSSUM

AMABILE (Chinese Forget-me-not). 5000 S. 24 in.

***Blue Bird.** An improved strain, more strongly upright in habit than the following. A week to 10 days later flowering.

Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

Blue. Tr. pkt., 15c; 1 oz., 30c.

Pink. Tr. pkt., 15c; 1 oz., 50c.

Firmament (New). A last season's novelty that has been very generally satisfactory the past season. A very free flowering compact Cynoglossum. Our trial this summer reached a height of 15 to 20 in. and flowered early and continuously. Of fine bushy, base-branching, yet compact habit.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

CYPERUS

Alternifolius. (Umbrella Plant). 60,000 S.

Tr. pkt., 20c; 1 oz., \$1.00.



One of the nicest of the new bedding and border plants coming to light in our outdoor trials.

MISCELLANEOUS ANNUALS—Continued

*DAHLBORG DAISY

160,000 S. per oz.

From our trial ground experience with this little-known annual the past season, we can't recommend it too strongly as a dwarf border and edging plant. Plants reached a height of 6 to 8 in. and a spread of 12 to 15 in. Flowered freely and continuously from the time it was transplanted into flats from the seed bed until cut down by frost. Flowers are small, single and golden yellow and produced well above foliage. Its small, freely produced flowers and finely-cut foliage give the plant a very distinctly fine-textured appearance that makes it outstanding. Comes absolutely true. See novelty list on page 2 for further description. Seed of irregular and slow germination; our liberal trade packets should produce several hundred seedlings however.

Tr. pkt., 50c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$5.00.

DAHLIA

2800 S. Seedling strains are enjoying an ever increasing popularity as outdoor bedding stock, especially the dwarf Unwin and Coltness strains. Choice specimens may, of course, be tuber propagated. Flowers first season from an early sowing.

***Unwin's Dwarf Hybrids.** 18 in. We offer this season, an especially reselected strain for even dwarf habit and attractive colors of this popular variety. Double and semi-double with a particularly wide range of bright colors.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.50.

Lilliput or Pompon Mixture. A good proportion are perfectly formed, fully double pompon-like flowers. 24 in.

Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

Decorative and Cactus Mixed. 30 in. Considerable variation in flower type in the larger flowered class. Particularly choice specimens may be tuber propagated.

Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.60.

COLTNESS STRAIN. 18 in. Single. Uniformly dwarf and true to color and quite free flowering.

Yellow **Scarlet Gem**

Each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

Mixture of all colors.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

For **Daisies**, see Felicia, next column, Agatheia, page 27, and Dahlborg Daisy, above.

For **Perennial Daisies**, see page 45.

DELPHINIUM

CHINENSIS. (Annual or Chinese Delphinium). 20,000 S. Fine for spring forcing indoors from a Sept. sowing or as an early summer outdoor crop from a Jan. sowing.

***Cambridge Blue.** The standard Belladonna blue variety.

Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

Dark Blue **White**

Each: Tr. pkt., 20c; 1 oz., 75c.

Mixture of above. Tr. pkt., 15c; 1 oz., 70c.

For **Perennial Delphinium**, see page 46.

(R) DIANTHUS 25,000 S.

Annual Sweet William. (D. barbato-sinensis). 12 in. Single mixed. Tr. pkt., 15c; 1 oz., 60c.

***Latifolius Atrococcineus.** 12 in. Produces many bright crimson semi- and double-miniature Rose flowers end of July from a March sowing. Really a perennial but used as an annual. Very attractive free flowering border plant.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

***Sweet Wivelsfield Single Mixed.** 12 in. Because of its large and free flowering and brilliant colors, this improved hardy annual strain is probably the most popular of the annual Dianthus. Produces nice short-stemmed cut flower material also.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Sweet Wivelsfield Double Mixed. Same as above but most flowers either semi- or double.

Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Pot plants such as *Lloydii* and *Semperflorens Begonias*, *Exacums*, *Petunias*, and *Gloxinias* sell all summer.

DIANTHUS—Continued

HEDDEWIGI. (Double Japanese Pinks). 10 in. Fine for rock garden and border work.

Fireball. Deep scarlet.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Pink Beauty. Blush-pink.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.25.

***Snowdrift.** Extra large flowered pure white.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Imperator Mixture of all colors in this double class.

Tr. pkt., 15c; 1 oz., 50c.

***Laciniatus Splendens.** Single. Extra large brilliant crimson flowers with large contrasting white eye.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

For **Hardy Dianthus**, see page 46.

DIDISCUS

Coeruleus (Blue Lace Flower). 10,000 S. Used extensively for indoor spring forcing as well as outdoors in cool climates.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 80c.

DIMORPHOTHECA

Aurantiaca Hybrids Mixed. 9500 S. 6 to 10 in. A very delightful early flowering annual border or rock garden plant. 2 in. single daisy-like flowers in bright yellow, buff and orange shades.

Tr. pkt., 20c; 1 oz., 75c.

DRACAENA

Indivisa. 1500 S. The narrow-leaved and most popular variety.

Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.00.

Australis. 1000 S. The broader-leaved kind.

Tr. pkt., 20c; 1 oz., 75c.

For **Dusty Miller**, see Cineraria, page 30; Centaurea, page 30; and Pyrethrum, pages 49 and 50.

ECHIUM

Blue Bedder. 6500 S. 15 in. From a March 25 sowing, this dwarf annual flowered May 10 in flats before transplanting and covered itself with tiny bell-shaped blue flowers thruout the summer until frost. Buds have distinct pink tinge that adds attractiveness. Makes a dwarf spreading row, 12 in. high by 15 in. wide.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 80c.

ESCHOLTZIA

Aurantiaca. 15,000 S. 1 ft. The true California Poppy. Rich orange.

Tr. pkt., 15c; 1 oz., 30c.

For **Bush Escholtzia**, see Hunnemannia, page 34.

EUPHORBIA

Heterophylla. (Annual Poinsettia or Mexican Fire Plant). 5000 S. 36 in. Makes solid green hedge with small Poinsettia-like formations at tips of branches. Tr. pkt., 15c; 1 oz., 50c.

Variegata. 2500 S. The popular Snow-on-the-Mountain.

Tr. pkt., 15c; 1 oz., 30c.

For the **Hardy Euphorbias**, see page 47.

*EXACUM

Atrocoeruleum. 27,000 S. per $\frac{1}{32}$ oz. (Affine). An easily grown, neat, and attractive pot plant. Richly fragrant violet-blue flowers. Very fine seed.

Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.25.

FELICIA

Bergeriana. 150,000 S. (King Fisher Daisy). The dwarf blue daisy for pot and conservatory work. 6 in. Germination apt to be slow and irregular.

Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00.

For **Forget-me-not**, see Cynoglossum, page 31, and Myosotis, pages 36 and 49.

For **Four-O'Clocks**, see Marvel of Peru, page 35.

MISCELLANEOUS ANNUALS—Continued

GAILLARDIA

PICTA. 14,000 S. Annual Gaillardia. Fine free flowering brightly colored material for beds or borders.

Lorenziana Double Mixed. 12 in. Quite attractive and free flowering double strain of orange, yellow, red, and rose shades. Tr. pkt., 15c; 1 oz., 35c.

***Indian Chief.** 12 to 15 in. An even and very free flowering single strain with solid red flowers. Tr. pkt., 15c; 1 oz., 50c. For **Perennial Gaillardia**, see page 47.

GERBERA

Jamesoni Hybrids. A long lasting popular and valuable greenhouse forcing crop. Our seed is harvested several times a year from California, enabling us to furnish fresh seed at all times. 100 seeds, 40c; 500 seeds, \$1.75; 1000 seeds, \$3.00.

GILIA

Capitata. (Blue Thimble Flower). 100,000 S. 24 in. Ball-shaped blue flowers. Attractive feathered foliage. Tr. pkt., 15c; 1 oz., 25c.

GLOXINIA

25,000 S. per 1/32 oz.

From a Jan. sowing, good sized flowering specimens are obtained by midsummer. Very fine seed and must be constantly watched for even moisture during germination. While growing give plenty of moisture and protection from the direct sun.

***Crimson Glow.** Very free flowering medium sized rich velvety crimson. Tr. pkt., \$1.00; 1/64 oz., \$1.60.

Defiance. Rich glowing scarlet. Tr. pkt., \$1.00; 1/64 oz., \$1.60.

Emperor William. (Crassifolia erecta). Dark violet-bordered white. Tr. pkt., \$1.00; 1/64 oz., \$1.60.

***Frederick Benary.** (Gigantea). Extra bright white-throated scarlet. Tr. pkt., \$1.00; 1/64 oz., \$2.25.

***Tigered and Spotted Mixture.** Attractively variegated colors. Tr. pkt., \$1.00; 1/64 oz., \$1.60.

Benary's Giant Mixture. (Gigantea). Fine mixture of large flowered, richly colored types. Tr. pkt., \$1.00; 1/64 oz., \$1.50.

GODETIA

95,000 S. Require shallow soil for greenhouse use. Culture about like Clarkia.

***The Bride.** Bright combination of white and crimson. 24 in. Tr. pkt., 15c; 1 oz., 50c.

Sweetheart. Double Poppy-like flower; clear pink. 18 in. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 85c.

***Sybil Sherwood.** Bright salmon-pink edged white. 18 in. Tr. pkt., 15c; 1 oz., 80c.

Thunderbolt. Deep crimson. Dwarf. 12 in. Tr. pkt., 15c; 1 oz., 75c.

Duchess of Albany. Pure satiny white. Large flowered. 18 in. Tr. pkt., 15c; 1 oz., 60c.

Wild Rose. Dwarf single. Pleasing shade of medium deep pink. Nice as a pot plant or for border work. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 85c.

Tall Double Mixture. Long-stemmed mixture for cutting. Tr. pkt., 15c; 1 oz., 50c.

GOMPHRENA (Globe Amaranth)

5500 S. An attractive everlasting garden flower with some value for cutting.

Aurea Superba. Large flowered orange. Needs support for straight stemmed cut flowers. Tr. pkt., 15c; 1 oz., 40c.

Globosa. Round, ball-shaped flowers.

Rose. 30 in. Light rose-pink.

Rubra. 30 in. Bluish purple. A very bright deep shade.

White. 30 in. A slightly grayish shade.

Mixture of above colors.

Each: Tr. pkt., 15c; 1 oz., 25c.

Nana Compacta Rubra. 8 in. Dwarf strain of Rubra. Very neat compact edging plant. Tr. pkt., 15c; 1 oz., 50c.

Getting soil too dry or keeping too wet frequently explains why seed won't grow.

ORNAMENTAL GOURD

Easily grown; when properly dried and varnished, last indefinitely. We'll be glad to send you a circular written by Louis La Montagne of Woburn, Mass. outlining his practical method of growing the fine exhibition Gourds for which he is famous. Ask for it when you order.

***La Montagne Strain.** 475 S. The finest selected strain of mixed Gourds we have tried. We handle originator's seed. Tr. pkt., 35c; 1/4 oz., 50c; 1 oz., \$1.50.

LARGE VARIETIES. 135 S.

Calabash. (Pipe or Powder Horn Gourd). Light green. 10 in. long and tapering to bottom.

Dipper. Light green, slightly mottled white. 18 to 24 in. long and very slender.

Sugar Trough or Corsican Gourd. Light green, turning to white. 4 in. high by 6 to 8 in. wide.

Each: Tr. pkt., 10c; 1 oz., 25c.

SMALL VARIETIES. 450 S.

Small Bottle. Greenish white, about the shape of a small bottle. 2 to 4 in. high and 1 to 2 in. thru.

Orange. About color and shape of an orange. 2 in. in diameter.

Pear. Striped alternately with green and yellow bands with some white markings. About 2 in. high and 1 in. thru.

Spoon. More or less spoon-shaped. Orange and white striped. 4 to 6 in. long by 1 in. wide.

Warted Types Mixed. Not over 4 in. in diameter. A novel and attractive mixture.

Each: Tr. pkt., 10c; 1 oz., 30c.

GREVILLEA

Robusta. (Australian Silk Oak). 3000 S. Seed sown in early spring and grown in 60 deg. house will make nice 5 in. pot specimens by fall. Give bottom heat and a well drained soil. Valuable for combinations. Because it holds its foliage well, is being used with Poinsettias instead of Asparagus. Tr. pkt., 20c; 1 oz., 75c.

GYPSOPHILA

ELEGANS. (Baby's Breath). 24,000 S. We offer with confidence the following strains as the most uniform available. Altho the larger flowered varieties are attractive and fine, the smaller flowered ones outlast them for bouquet work.

***Covent Garden Market.** Large and full petaled flowers. About 75% are 6 to 8 petaled. Very excellent stock. 1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.60; 5 lbs. \$6.00.

London Market. Largest flowered, and longest-stemmed. 1 oz., 25c; 4 ozs., 60c; 1 lb., \$1.75; 5 lbs., \$6.50.

Paris Market. The original medium sized Baby's Breath variety. Fine long-lasting cut flower material. 1 oz., 15c; 4 ozs., 40c; 1 lb., \$1.00; 5 lbs., \$4.50.

Carminea. Same as Paris Market except a bright carmine-pink. Tr. pkt., 15c; 1 oz., 25c; 4 ozs., 75c.

Crimson. Same as above but a carmine-crimson. Tr. pkt., 15c; 1 oz., 25c; 4 ozs., 75c.

***Muralis.** A very neat densely rounded bush, 4 to 6 in. high and covered with tiny pink flowers. A sowing direct in May or early June flowers late Aug. Very compact border plant. Tr. pkt., 15c; 1 oz., 40c.

For **Hardy Gypsophila**, see page 47.

HELIANTHUS (Sunflower)

Dwarf Chrysanthemum-Flowered. 650 S. 40 in. Good proportion fully double yellow Sunflowers. Tr. pkt., 10c; 1 oz., 25c.

Russian. 8500 S. Large single Sunflower. 1 oz., 10c; 1 lb., 50c.

HELICHRYSUM

MONSTROSUM. 36,000 S. The popular double Strawflower.

Canary-Yellow	Crimson	Fireball	Golden Globe
Rose-Carmine	Rose Queen	Salmon	Scarlet
White	Formula Mixture		

Each: Tr. pkt., 15c; 1 oz., 50c.

MISCELLANEOUS ANNUALS—Continued

HELIOTROPE

***Dwarf Regale Mixture.** 15 in. A fine even clear colored strain with extra large flower heads. This strain retains the rich odor of the cutting propagated stock.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

***Marine.** 15 to 20 in. Extra deep marine blue. Large flower heads and compact growth.

Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.00.

Lemoine's Giant Mixture. 5300 S. 24 to 30 in.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

HOLLYHOCK (Annual)

Indian Spring (New annual strain). 4 to 5 ft. The first really "annual" Hollyhock we've ever seen. Actually flowered in 5 months from seed sowing and continuously until frozen down. Flowers mostly on central spike with some growth and a few flower spikes coming up from base of plant. Colors light pink and rose; semi-double flowers.

Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

For **Perennial Hollyhock**, see page 47.

HUNNEMANNIA

FUMARIAEFOLIA. 8000 S. (Bush Escholtzia).

***Sunlite.** Brilliant canary-yellow, semi-double.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

Single Yellow. Tr. pkt., 15c; 1 oz., 50c.

For **Hardy Iberis**, see page 47 and Candytuft on pages 28 and 29.

IMPATIENS

Very free flowering habit, colorful for bedding in shady locations, together with the dwarf compact habit of the two new strains listed below, have combined to bring this old-fashioned plant back into considerable popularity.

***Dwarf Sultani Bright Carmine.** 70,000 S. 4 in. pot specimens of this dwarf type reach a height of about 6 in. and flower very profusely. A dwarf form of this familiar variety.

Tr. pkt., 50c; ½ oz., \$1.15; ¼ oz., \$2.00.

***Dwarf Sultani Mixture.** 70,000 S. 6 to 8 in. A bright mixture of colors in this dwarf class.

Tr. pkt., 50c; ½ oz., \$1.00; ¼ oz., \$1.75.

Sultani. 20,000 S. Bright rose. 18 in.

Tr. pkt., 50c; ¼ oz., \$1.00.

Holsti Liegnitzia. Vermilion-red. Quite free flowering.

Tr. pkt., 50c.

Holsti Hybrids. Mixture. 55,000 S.

Tr. pkt., 50c; ¼ oz., \$1.00.

Oliveri. Rosy lilac. 24 in. Tr. pkt., 75c.

IPOMOEA (Moonflower or Morning Glory)

With the introduction of the popular Heavenly Blue, the attractive Japanese types, and the new crimson varieties, this old-fashioned climber is coming rapidly back into favor.

***Heavenly Blue.** 400 S. Clark's Mammoth Early Free Flowering Strain. Used considerably lately in 3 and 4 in. pots for Spring sales. Forces into full flower in this size pot from an early March sowing in a 60 deg. temperature. Must be supported on a stake. For outdoors should be planted in a poor soil.

Tr. pkt., 20c; 1 oz., 65c; 4 ozs., \$1.75.

***Crimson Rambler.** Bright carmine-red with attractive white edge around each flower. A welcome addition to the climbing Morning Glory family. Our trial the past season climbed very readily and altho not quite as early or free flowering as Heavenly Blue, still made a very presentable showing. The best red Morning Glory we know of.

Tr. pkt., 25c; ¼ oz., 35c; 1 oz., \$1.00.

A disorderly, unsuccessful greenhouse business is a liability to our industry. Get busy.



Japanese Morning Glory grown in Japan as a dwarfed pot plant.

IPOMOEA—Continued

Scarlett O'Hara. Large flowered, brilliant carmine-red variety introduced last season. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Imperial Japanese Morning Glory. Extra large fringed flowers in bright shades of rose, pink, and cerise; good climbing habit. Tr. pkt., 15c; 1 oz., 50c.

Rose Marie. 1100 S. Double deep rose. Quite free and early flowering.

Tr. pkt., 20c; 1 oz., 75c.

Quamoclit (Cardinal Climber). 9500 S. Brilliant red flowers freely produced. An attractive annual climber. Plants must be planted close for wall coverage. Tr. pkt., 15c; 1 oz., 60c.

NOCTIFLORA. 110 S. Large flowered white.

Black-seeded **White-seeded**

Each: Tr. pkt., 15c; 1 oz., 30c.

For other **Morning Glory**, see *Convolvulus*, page 30.

*KALANCHOE

Globulifera Coccinea. Popular winter and spring flowering pot plant. Most profitable when flowered for Xmas; sow in Jan. or Feb., carry along in a light soil in a temperature of 55 to 60 deg. and cover with black cloth same as with Mums from 5 P.M. to 7 A.M. from Aug. 15 to Sept. 15. Very fine seed. Liberal Tr. pkt., 60c; 3 tr. pkts., \$1.35.

KOCHIA (Summer Cypress) 45,000 S.

Childsii. 24 in. This variety stays a clean fresh green thruout the entire season. Very attractive dense bushes. Tr. pkt., 10c; 1 oz., 20c.

Trichophylla. Turns red in Fall. Not quite so tall or symmetrical as above.

Tr. pkt., 10c; 1 oz., 20c.

LANTANA 1300 S.

Dwarf Hybrids Mixed. 12 in. Must be sown early and with bottom heat. Tr. pkt., 15c; 1 oz., 60c.

MISCELLANEOUS ANNUALS—Continued

LAVATERA

Loveliness. 4500 S. (Splendens). Very attractive early flowering annual. Flowered mid-June from end of March sowing. 12 to 15 in. high with 2 in. single Hollyhock-like flowers of a deep salmon-rose.
Tr. pkt., 15c; 1 oz., 50c.

LEPTOSYNE

Maritima. 10,000 S. 18 to 24 in. Large Marguerite-yellow flowers.
Tr. pkt., 15c; 1 oz., 75c.
Stillmanii. 25,000 S. 18 in. Nice golden yellow for cutting. Flowers 6 to 8 weeks from seed.
Tr. pkt., 15c; 1 oz., 75c.

LINARIA

MAROCANNA. (Miniature Snapdragon).
Fairy Bouquet. 600,000 S. 10 in. Flowers very early and freely. Bright mixture of colors.
Tr. pkt., 20c; ¼ oz., 45c; 1 oz., \$1.25.



Lisianthus Russelianus. An attractive new spring pot and outdoor bedding plant. Deep lavender tulip-like flower produced very freely.

LISIANTHUS (see photo)

Russelianus. From an April 7 sowing our outdoor planting of this attractive new plant flowered freely from mid-Aug. to frost. Violet-blue tulip-like flowers on plants 10 to 12 in. high with an upright and compact, free flowering habit, are important attributes of this comparatively new plant.
Tr. pkt., 75c; ¼ oz., \$1.35.

LOBELIA

700,000 S. Where protection from direct sun can be given them and in not too hot climates, Lobelia are unsurpassed for bright blue, mauve, and white edging, hanging and trailing work. All varieties come quite true.
COMPACTA. 6 in. Of dwarf compact habit.
***Blue Gown.** Standard free flowering deep blue. Very fine.
Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

Through cooperative community advertising you will get the most for your advertising money.

LOBELIA—Continued

Blue Stone. Deep blue, nearly same as above.
Tr. pkt., 25c; ¼ oz., 75c.

Cambridge Blue. Very dwarf, restricted light blue.
Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.

***Crystal Palace.** Very dwarf deep blue with dark bronzy green foliage. A fine standard variety. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.
Emperor William. Deep blue with light green foliage. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.60.

***Mrs. Clibran Imp.** Deep blue with contrasting white eye and light foliage. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$3.00.

Mauve Queen. Attractive light lilac. Even compact growth. Tr. pkt., 35c; ¼ oz., \$1.00.

***Opal.** Altho slightly stronger growing than other compact varieties, Opal is much freer flowering. Light blue with contrasting white eye. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.

Bedding Queen. An attractive strong growing deep blue with contrasting white eye. Quite evenly compact habit. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

White Lady. Clean glistening white. Tr. pkt., 35c; ¼ oz., 75c.

Mixture of all colors in the compacta class.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.
PENDULA. Of trailing or pendulous habit.

***Hamburgia.** Deep blue with dark green foliage. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Sapphire. Deep blue with white eye. Light green foliage. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Angelina. White with light green foliage. Tr. pkt., 35c; ¼ oz., 75c.

For **Perennial Lobelia**, see page 48.

LUPINE

A good spring crop of the annual type can be flowered in 3 in. pots from a Jan. sowing spaced close so as to flower one spike to a plant. We prefer the Giant Kings.

Luteus Romulus. 300 S. Dwarf richly fragrant yellow. 15 in. Tr. pkt., 15c; 1 oz., 45c.

Sulphureus Superbus. 600 S. 24 to 30 in. Yellow for cutting. Tr. pkt., 15c; 1 oz., 45c.

***GIANT KING.** 1300 S. Some longer stemmed and earlier flowering than the regular Hartwegis.

***Oxford Blue.** Standard rich deep blue. **Sky Blue.**

Heliotrope. A pleasing rosy purple shade. **White.**

Mixture of above colors.

Each: Tr. pkt., 20c; 1 oz., 50c; 4 ozs., \$1.35.

HARTWEGI. 1400 S. The standard cut flower strain.

Dark Blue, Rosens, Sky Blue, White, Mixture. Each: Tr. pkt., 15c; 1 oz., 35c; 4 ozs., \$1.00.

For **Perennial Lupine Polyphyllus**, see page 48.

MARVEL OF PERU (Mirabilis Jalapa)

325 S. Ours is a dwarf strain—12 to 15 in.—of this old-fashioned "Four O'Clock." Bright and varied color mixture.
Tr. pkt., 15c; 1 oz., 25c.



Lobelia, Opal

MISCELLANEOUS ANNUALS—Continued

MAURANDIA

Mixture. Good strong climber making a thick wall of fine-textured foliage 4 to 6 ft. high from a spring sowing. Flowers quite freely with small flowers in shades of violet and pink.
Tr. pkt., 25c; $\frac{1}{8}$ oz., 50c.

MIGNONETTE

27,000 S. May be sown in January for spring cutting, altho a fall sowing is better.
***Ball Strain.** Considerably whiter and 2 to 3 weeks earlier than New York Market.
 $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.
New York Market. A standard cut flower strain.
Tr. pkt., 75c; $\frac{1}{4}$ oz., \$1.50.
MACHET. For summer bedding.
Golden Goliath, Goliath Red.
Each: Tr. pkt., 15c; 1 oz., 85c.

MIMOSA

Pudica. (Sensitive Plant). 4500 S.
Tr. pkt., 15c; 1 oz., 35c.

MIMULUS

Tigrinus. (Monkey Flower). Attractively tigered and spotted flowers, in red, orange, and yellow shades. Nice as spring pot plants or for bedding in cool climates.
Tr. pkt., 20c; $\frac{1}{4}$ oz., 60c.
For **Moonflower**, see Ipomoea, page 34.
For **Morning Glory**, see Convolvulus, page 30 or Ipomoea, page 34.

MUSA

Ensete. Ornamental tropical Banana. 50 seeds, \$1.35; 100 seeds, \$2.50.

MYOSOTIS (Forget-me-not)

44,000 S. The two strains listed flower considerably earlier from a mid-winter sowing than others listed in the perennial list.
Ball Early. Primarily intended as a fall sown winter flowering cut flower. Makes nice early flowering plants from a mid-winter sowing.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$2.85.
Ruth Fischer. Clear light blue. Of extra compact and dwarf growth. Excellent for an early spring pot plant.
Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.00.
For other **Myosotis**, see page 49.



Seed of all sown Aug. 5 shows the value of Ball's Early for cutting or pot plants. Photo Nov. 16.

A trim, nicely landscaped florist's grounds set an inspiring example and advertises most effectively.

NAEGELIA

From the past season's trials of this new pot plant, its habit of dropping its flowers a few days after being placed in a living room has come to light. We still think it's a nice pot plant tho but the above must be taken into consideration. Very fine seed that must be handled carefully. Sow in Jan. or Feb. for next winter's flowering plants. Culture much the same as Gloxinias—careful watering and protection from bright sun are important.
Tr. pkt., \$1.00.

NASTURTIIUM

Brilliant colors, free flowering habit, and good stems are reasons why the Double Sweet Scented class has been so generally accepted by the home gardener as well as the florist who shouldn't be without them in the spring for combination work, window boxes, as well as cutting.
DOUBLE GLEAM TYPE. 175 S. Of trailing or climbing habit for cutting, trailing, and window box work.
***Golden Gleam.** The original Gleam Nasturtium; golden yellow.
1 oz., 15c; 4 ozs., 35c; 1 lb., \$1.00.
***Scarlet Gleam.** Same as above but a brilliant scarlet.
1 oz., 15c; 4 ozs., 35c; 1 lb., \$1.00.
Moon Gleam. Light golden cream.
1 oz., 15c; 4 ozs., 40c; 1 lb., \$1.25.
Salmon Gleam. Delicate golden-salmon.
1 oz., 15c; 4 ozs., 40c; 1 lb., \$1.25.
Fire Gleam. Fiery scarlet.
1 oz., 15c; 4 ozs., 35c; 1 lb., \$1.00.
Orange Gleam. Deep glowing orange.
1 oz., 15c; 4 ozs., 40c; 1 lb., \$1.25.
***Gleam Hybrids.** A brilliant mixture of all double varieties.
1 oz., 15c; 4 ozs., 35c; 1 lb., \$1.00.
DWARF DOUBLE TYPE. 175 S. Fully as double and large as the Gleam type, the following varieties are of a very attractive dwarf compact, rounded growth. 12 to 15 in. high.
***Golden Globe.** Same color as Golden Gleam.
1 oz., 15c; 4 ozs., 40c; 1 lb., \$1.25.
Scarlet Gem. Brilliant scarlet.
1 oz., 20c; 4 ozs., 65c.
Mixture of all colors in this dwarf class.
1 oz., 15c; 4 ozs., 40c; 1 lb., \$1.25.
SINGLE VARIETIES. 225 S.
Dwarf Mixture of all colors in the dwarf class.
1 oz., 10c; 4 ozs., 30c; 1 lb., 90c.
California Giant Single Mixture of colors in the tall, trailing class.
1 oz., 10c; 1 lb., 75c.

NEMESIA Strumosa Suttoni. 90,000 S.

GRANDIFLORA. Large flowered and long-stemmed. 14 to 16 in. Fine for spring cutting and combination work. Varieties come quite true and are used for greenhouse forcing.
***Blue.** A standard color. **Cherry Red.**
***Orange.** A bright orange. **Rose, Scarlet.**
Each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c.
White. Tr. pkt., 25c; $\frac{1}{4}$ oz., 80c.
Mixture of all colors in this tall class.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.
NANA COMPACTA. Of more dwarf habit, 6 to 8 in. Branches freely from the base, making attractive rounded specimens. Excellent for pots and short combination work.
Aurora. Attractive carmine-crimson with white.
***Blue Gem Imp.** The outstanding variety for color and habit.
Fire King. Scarlet.
Orange Prince. A rich bright color.
White Queen. Large flowered pure white.
***Triumph Mixed.** A very attractive dwarf mixture with a wide range of well balanced colors.
Each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c.

NICOTIANA (Tobacco Plant)

19,000 S. Sweet Scented.
***Suaveolens.** 18 in. A small flowered, dwarf compact grower.
Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.00.

MISCELLANEOUS ANNUALS—Continued



Our trial ground line of this past summer was continuously in flower at height of 4-6 in.

NICOTIANA—Continued

AFFINIS.

White. 36 in. Tall and large flowered.

Tr. pkt., 15c; 1 oz., 30c.

***Crimson Bedder.** 15 in. Makes a very compact growth and very free flowering. Deep crimson red.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Hybrids Mixture. A hybrid mixture of many shades in the tall large flowered type. Tr. pkt., 15c; 1 oz., 40c.

NIEREMBERGIA

Hippomanica. 180,000 S. Continues one of the outstanding introductions to the bedding plant list in recent years. Very free flowering; does well in slight shade as well as open sun; a dwarf, compact growth (5 to 6 in.) that is maintained uniformly in nearly all strains available. Bright lavender-blue color, deepening some in slight shade.
Tr. pkt., 50c; 1/32 oz., \$1.50; 1/16 oz., \$2.75.

NIGELLA (Damascena Double) 11,000 S.

Miss Jekyll. (Love-in-a-Mist). Cornflower-blue.

Mixture contains shades of light and dark blue and white.

Each: 1 oz., 15c.

For **Ornamental Grass**, see Pennisetum, page 38.

For **Ornamental Pepper**, see Solanum, page 40.

PANSY 25,000 S.

A Jan. sowing of both Pansies and Violas will make nice small flowering plants to sell out of flats or pots in late spring and early summer. For larger plants a fall sowing is advisable. We have complete supplies of new seed on all the following.

***Ball Giant Mixture.** Our extensive annual trials of "All the Best" in Pansy strains the world over convince us that this is the finest "All purpose" strain available. Giant flowers with an exceptionally rich mixture of the newer bronzy reds with blues and yellows in proportion. Fairly compact growth.

Tr. pkt., 40c; ½ oz., \$3.00; 1 oz., \$5.50; 4 ozs., \$20.00.

***Ball Giant Mixture Dwarf.** Identical to above but with a distinctly dwarfer and more compact habit.

Tr. pkt., 50c; ¼ oz., \$2.00; ½ oz., \$3.50; 1 oz., \$6.00; 4 ozs., \$21.00.

***Canadian Giants (New).** Our new extra large flowered strain introduced the past season. A reselected Maple Leaf Giant strain that improves the original with uniformly larger flowers and more

Our Pansy trials clearly show our Ball Giant Mixture the best all-round strain.

PANSY—Continued

complete and bright color mixture. We have a good supply of new crop seed on hand for immediate shipment.

Tr. pkt., 75c; ⅛ oz., \$1.30; ¼ oz., \$2.50; 1 oz., \$9.00.

***Engelmann's Giant Mixture.** A fine mixture of real giants. Nice compact habit. Originator's seed.

Tr. pkt., 50c; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$8.00.

Engelmann's Special. Dwarf, compact 5-blotched strain.

Tr. pkt., 50c; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$8.00.

Maple Leaf Giants. Well known giant strain. Of strong heavy growth but lacking choice colors of strains featured above.

Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00.

Steele's Jumbo Mixture. The famous American strain introduced by Mr. Steele of Portland, Oregon. Uniformly extra large flowered and strong growing.

Tr. pkt., 75c; ⅛ oz., \$1.75; ¼ oz., \$3.25; ½ oz., \$6.25; 1 oz., \$12.00.

Roggli Giant Mixture. A fine strain with mixture predominating in rich red and bronze shades.

Tr. pkt., 50c; ¼ oz., \$1.50; ½ oz., \$2.50; 1 oz., \$4.50.

Improved Swiss Giants. Fine all purpose bedding strain.

Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00.

Orchid Flowered. (New). Our trials show this an attractively frilled petaled strain with many original pastel shades of orchid, mauve, primrose, and apricot. Tr. pkt., 75c; ⅛ oz., \$1.75.

Donovan's Strain. A fairly large flowered attractively colored mixture much used for bedding purposes.

Tr. pkt., 50c; ¼ oz., \$1.40; 1 oz., \$5.00.

***Ball Winter Flowering.** A reselected strain of the original Don's Upright. An extra long-stemmed, upright growing strain particularly suited to greenhouse mid-winter forcing from a July sowing. Our strain is reselected for more attractive colors and larger flowers.

½ tr. pkt., 60c; Liberal tr. pkt., \$1.00; ⅛ oz., \$2.00; ¼ oz., \$3.50.

SWISS GIANTS in separate colors.

***Coronation Gold.** Best extra dwarf large flowered golden yellow variety we know of.

Tr. pkt., 50c; ⅛ oz., 85c; ¼ oz., \$1.50; 1 oz., \$5.00.

Fire Beacon. Unusual shade of bright wallflower-red.

Tr. pkt., 50c; ¼ oz., \$2.25; 1 oz., \$8.00.

Alpenglow. Rich garnet-red.

Tr. pkt., 50c; ¼ oz., \$1.75; 1 oz., \$6.00.

Rheingold. Large yellow with brown blotch in center.

Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00.



The visitors shown above are inspecting our extensive annual Pansy trials. All fine strains available are lined up here for comparison.

MISCELLANEOUS ANNUALS—Continued

PANSY—Continued

- ***Lake of Thun.** Rich fairly deep blue with dark center. Fine large flowered variety.
Tr. pkt., 50c; ¼ oz., \$1.50; ½ oz., \$2.75; 1 oz., \$5.00.
Mont Blanc. The finest dwarf pure white.
Tr. pkt., 50c; ⅛ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$7.00.
SMALL FLOWERED bedding strains. Free flowering and true.
Brightness. A small flowered dwarf strain. White flowers with large contrasting black blotches in center.
Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.
Golden Queen. Clear yellow with some marking.
Lord Beaconsfield. Standard bedding blue with lighter edges.
Snow Queen. Clear paper white.
Each: Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.
***Baby Delight.** A new small and free flowering strain. Flowers light blue with darker face. Compact and early flowering growth commend this new strain for plant box work as well as bedding.
Tr. pkt., 50c; ⅛ oz., 80c.
For **Papaver**, see Poppy this page and page 49.

*PENNISETUM (Ornamental Grass)

- Rueppelianum.** 13,000 S. (Purple Feather Grass). 36 in. Very attractive ornamental grass producing long graceful purplish-brown heads.
Longistylum. 3,000 S. 18 in. Producing shorter broader heads.
Each: Tr. pkt., 15c; 1 oz., 60c.

PENTSTEMON (Beard Tongue) 55,000 S.

- Southgate Gem.** Glowing scarlet. Tr. pkt., 35c; ¼ oz., 90c.
GLOXINIOIDES.
Rose Shades. Tr. pkt., 35c; ¼ oz., \$1.00.
Sensation Mixture. Tr. pkt., 35c; ¼ oz., 80c.
For **Ornamental Pepper**, see Solanum, page 40.

PHLOX Drummondii (Annual)

14,000 S. For ease of culture, brilliant, positive colors and strains that come true, annual Phlox Drummondii can't be beaten. We regularly sow our Phlox trials here at West Chicago right out in the field about the end of May, and they are a riot of color in early August. Certainly this can be said of few outdoor bedding plants that stand our hot mid-summer conditions! The Grandifloras have some value for cutting too. Phlox don't stand transplanting well when their roots have to be disturbed which means sowing in April in pots or our new plant bands for earlier outdoor flowering.



Phlox should be sown direct in our latitude for best results outdoors.

- GRANDIFLORA.** 15 to 18 in. Fine free flowering bedding and border material. Also fine cutting material.
Atropurpurea. Deep purple.
Carnea. Blush-pink.
***Chamois Rose.** A nice soft pastel chamois with deep center.
***Cinnabar.** Brick-red with dark eye.
Coccinea. Fiery red.
Isabellina. Creamy yellow.
Leopoldii. Fairly deep rose with white center and dark eye.
Lilae with white eye. A pleasing shade.
***Rosea.** Medium rose-pink with dark center.
Stellata Splendens. Brilliant scarlet with white eye.
Vermilion. A deep red shade.

PHLOX—Continued

- ***White.** A clear color. **Violet.**
Cuspidata Mixture (Star of Quedlinburg). A bright mixture in this novel star-shaped type.
Special Mixture of all colors in this tall class.
Each: Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.
GIGANTEA. A comparatively new type in tall Phlox. Flowers 50% larger than other types. Strong growing and free flowering.
Salmon Glory. (New). Rich soft salmon-rose with creamy white eye. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.
Art Shades Mixture. Large flowered mixture of pastel shades with white eyes. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.
NANA COMPACTA. 6 to 8 in. Of dwarf compact growth, fine for low bedding and border work.
Apricot. Deep apricot-cream shade.
Atropurpurea. Deep purple.
Chamois. Soft pastel shade with deep center.
Defiance. A cinnabar shade of salmon-scarlet.
***Fireball.** Really fiery crimson.
Isabellina. Creamy yellow.
***Mirabilis.** Attractive bright salmon-rose.
Sky Blue with white eye.
***Snowball.** Good clear white. **Violet**
***Ceeily Mixed.** A very popular semi-dwarf mixture. Very even.
Each: Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.30.
Mixture of all colors in this dwarf class.
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.
For **Perennial Phlox** Decussata, see page 49.
For **Pinks**, see Dianthus, pages 32 and 46.

POPPY

- Peony-Flowered Mixture.** Double. 3 ft.
Annual Single Mixture.
Each: Tr. pkt., 10c; 1 oz., 20c.
ICELAND (P. Nudicaule). 150,000 S. The standard type for greenhouse spring forcing. Sow either direct or in pots and transplant. Best cut flower strains starred (*).
***The Emperor.** Brilliant orange. Improves El Monte in flower size and long, stiff stems.
***The Empress.** Same as above but in salmon-rose shades.
***Yellow Wonder.** (Amurense). Large buttercup-yellow.
Each: Tr. pkt., 25c; ¼ oz., 65c.
El Monte. Standard tangerine-orange.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.
***Sanford's Giants.** A fine standard Hybrid strain for greenhouse forcing. Brilliant color mixture.
Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$2.00.
***Giant Coonara.** (Unwin's). (New). Extra large flowers on long stiff stems. Bright mixture of delicate Poppy shades.
Tr. pkt., 50c; ¼ oz., \$1.35.
Fakenham Hybrids. Fine large flowered strain.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.
Gartref Strain. Mixture of pastel shades with picotee edges.
Tr. pkt., 25c; ¼ oz., 65c.
SHIRLEY (P. Rhoeas). 70,000 S.
***American Legion.** Single orange-scarlet.
Tr. pkt., 15c; 1 oz., 35c.
Sweet Briar. (Double Begonia-flowered). Very nice deep rose-pink. Tr. pkt., 15c; 1 oz., 60c.
Formula Mixture of all colors in the Shirley class.
Tr. pkt., 15c; 1 oz., 50c.
For **Oriental Poppies**, see perennial list page 49.

PORTULACA

- 280,000 S. Very excellent easily grown outdoor bedding plant. Will flower 30 to 45 days from sowing in late spring or early summer. The separate color strains come very true.
Single Mixture. Tr. pkt., 15c; 1 oz., 40c.
***DOUBLE TYPE.** Our double strains produce 85-90% true double flowers and are quite even.

Red	White	Yellow
Each: Tr. pkt., 25c; ¼ oz., 70c; 1 oz., \$2.35.		
Mixture. Special mixture of all brilliant Portulaca colors. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.		

And keep this ever in mind, "Business goes where it is best cared for."

MISCELLANEOUS ANNUALS—Continued

QUEEN ANNE'S LACE FLOWER

36,500 S. 24 in. Large heads of white flowers in umbels. similar to Didiscus. Nice filler for basket work. May be dried and dyed. Tr. pkt., 20c; 1 oz., 75c.

RHODANTHE

13,000 S. 12 in. Semi-double everlasting flowers.

***Atrosanguinea.** Deep bright carmine.

Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.15.

Maculata Rose. Dark centered. Tr. pkt., 15c; 1 oz., 40c.

RICINUS (Castor Bean)

Very fast growing, tall, large leaved plants. Good for tall hedges and windbreaks.

Borboniensis Arboreus. 55 S. 10 ft. Reddish stems and veins. Small feather white flowers in bunches.

1 oz., 15c; 4 ozs., 50c; 1 lb., \$1.50.

Crimson Spire. 8 ft. Crimson stems and foliage. White flower bunches and red fruit. Tr. pkt., 15c; 1 oz., 35c.

Zanzibariensis Enormis. 25 S. 10 ft. Foliage all green.

1 oz., 20c; 4 ozs., 60c; 1 lb., \$2.25.

RUDBECKIA

85,000 S. Fine outdoor cutting material. Very free flowering in bright yellow, orange, and brown shades. Stands hot dry locations very well.

***Hirta Autumn Tints** (Herbswald). Fine long-stemmed strain for cutting. Shades from clear yellow thru variegated types to brown.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

My Joy. Large single brilliant orange-yellow with dark centers. Fine cutting variety.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

***Dwarf Sun** (New). A compact growing strain, 15 in., with early large single yellow flowers with dark eyes. Very early and free flowering. Our trial was in full flower past summer July 20 from April 7 sowing. Very colorful border or bedding plant.

Tr. pkt., 50c; ¼ oz., \$1.25.

Kelvedon Star. Fine long-stemmed cutting strain. Yellow, orange, and mahogany shades with dark centers.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

For the hardy **Rudbeckia Purpurea**, see page 50.

SAINTPAULIA

Ionantha (African Violet). Special care is required to germinate the extra fine seed. Tr. pkt., \$1.00.

SALPIGLOSSIS

125,000 S. Besides an attractive garden flower, Salpiglossis furnishes the retail grower with good cutting material either from a Feb. sowing indoors or a later one grown outdoors. If plants must be transplanted, the seed should be sown in pots. The advent of the new dwarf strains for bedding adds another use for this richly colored annual.

EMPEROR. 30 in. The tall kind for cutting.

Brown and Gold

Violet and Gold

Rose and Gold

White and Gold

Scarlet and Gold

Yellow and Gold

Mixture of all colors.

Each: Tr. pkt., 15c; ¼ oz., 30c; 1 oz., 80c.

DWARF GIANT FLOWERED. 20 in. Fine for bedding and borders.

Blue and Gold

Bright Scarlet

Scarlet and Gold

Mixture of all colors in this dwarf class.

Each: Tr. pkt., 25c; ¼ oz., 70c; 1 oz., \$2.35.

Why is it that one grower fails and another reports perfect germination from the same lot of seed?



The new Salvia Blaze of Fire. Notice the ideal dwarf pot plant habit. Our earliest flowering variety.

SALVIA

The advent of several new extra early flowering and dwarf strains the past seasons is adding impetus to Salvias as spring pot plants and also to their spring sales as bedding plants since they can now be sold as dwarf bushy plants and be in full flower in early spring. From our extensive annual Salvia trials, the past season, we offer the following list of varieties as the best available. Listed according to their flowering dates—earliest first. In selecting your varieties, the fact must be kept in mind that the extra early flowering varieties don't make as big a showing in the late summer and fall as do the later ones like America and Bonfire.

SPLENDENS. 12,000 S.

St. John's Fire. (New). The earliest and dwarfest red strain available. Reached a height in our trials last season of 12 to 15 in. Very even fine strain.

Tr. pkt., 85c; ⅓ oz., \$1.50; ¼ oz., \$2.75; 1 oz., \$10.00.

***Blaze of Fire.** The standard extra early strain. A few days behind the new St. John's fire in flowering and of a considerably stronger and more robust growth. 15 to 18 in. outdoors.

Tr. pkt., 50c; ¼ oz., \$1.75; 1 oz., \$6.50.

***Firebrand.** (Early Harbinger). Third earliest variety. 20 in. Very early flowering and remains in full flower throughout the entire summer. Doesn't get ragged and messy in fall.

Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$3.35; 4 ozs., \$10.00.

***America** (Globe of Fire). 22 in. The standard dwarf bedding variety. Follows Firebrand closely in flowering date. Absolutely even stock.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00; 4 ozs., \$6.50.

Bonfire. 30 in. Medium tall. Very even.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 ozs., \$5.00.

Splendens Tall. 36 to 40 in. Not early flowering.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50; 4 ozs., \$4.00.

Maroon Prince. 30 in. Heavy maroon shade. Not early or extra free flowering.

Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.25.

FARINACEA. 24,000 S.

Blue Bedder. (Blue Salvia). 36 in. with long stems for cutting.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

MISCELLANEOUS ANNUALS—Continued

SALVIA—Continued

Pale Blue. Slightly lighter colored and not quite so compact.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

HORMINUM.

Oxford Blue. Top leaves of each branch turn a deep oxford-blue.

Tr. pkt., 25c; 1 oz., \$1.00.

For *Perennial Salvia Patens*, see page 50.

*SANVITALIA

Procumbens. 50,000 S. 4 to 5 in. Double creeping Zinnia.

Small golden yellow flowers. Very fine dwarf edging plant.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

SAPONARIA

VACCARIA. 5,500 S. 18 in. Gypsophila-like flowers.

White **Rose**

Each: 1 oz., 15c; 4 ozs., 35c.

For *Saponaria Ocymoides*, see page 50.

SCABIOSA

4500 S. No retail grower should be without a liberal planting of annual Scabiosa. Long-stemmed, pleasing colors, and free flowering make them valuable. Do very well for spring flowering in a cool house or outdoors during the summer where they are considerably improved by cloth house protection. Respond very well to electric lights in spring for earlier flowering. For a complete variety of attractive colors in the large flowered class, use our Giant Hybrid Mixture.

***Blue Moon.** Attractive lavender-blue color with extra large fully double flowers and long wiry stems.

Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

***Ageratum Blue.** Standard large flowered azure blue.

Fire King. A bright scarlet.

King of the Blacks. Deep rich maroon.

***Loveliness.** Extra large flowered deep salmon-pink. First-class commercial color.

Shasta Improved. Fine pure white.

***Giant Hybrid Mixture.** A special strain containing only the new large flowered varieties. Well balanced in good cut flower colors.

Tom Thumb. 10 in. Compact, dwarf plants for bedding and edging. Mixture of colors.

Each: Tr. pkt., 15c; 1 oz., 50c.

For *Perennial Scabiosa*, see page 50.

SENECIO elegans

Double Mixture. 80,000 S. (*Jacobea*). 18 in. An old-fashioned garden plant.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

For *Sensitive Plant*, see *Mimosa*, page 36.

SHAMROCK

True Irish Shamrock. 38,000 S. (*Trifolium Minor*). Sow Jan.

1st in Carnation house temperature (cooler after germination) for 2 in. St. Patrick's Day plants. Use 3 or 4 seedlings per pot.

Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.65.

Red Leaved Shamrock. (*Trifolium repens atropurpureus*) Deep bronzy-green leaves, otherwise same as above.

Tr. pkt., 35c.

SILENE

Pendula Mixed. 38,000 S. 6 in. Nice dwarf edging or bedding plant.

Tr. pkt., 15c; 1 oz., 40c.

SMILAX

7800 S. Well known greenhouse climber.

Tr. pkt., 20c; 1 oz., 50c; 4 ozs., \$1.50.

For *Snow-on-the-Mountain*, see *Euphorbia*, page 32.

SOLANUM

To insure an even, first-class strain of this valuable pot plant we grow our own seed crop of these varieties at West Chicago where we can personally supervise selection and rogueing. For well grown 4 in. specimens, sow seed in June, carry along indoors. Larger plants must be started earlier, of course. Some growers summer plants outdoors in frames, lifting and shifting into 5's and 6's in Sept.; a 50 deg. house should then set them up well for the holidays.

***Variegated Pepper.** (New). A Japanese strain that we believe will make an attractive novelty pot plant item. Growth upright and compact, leaves attractively variegated with white; fruit elongated and narrow, purple at first and turning a brilliant red. For large specimens put three plants in a 5 in. pot. See novelty list on page 2 for further description.

Tr. pkt., 35c; ¼ oz., 75c; 1 oz. \$2.75.

***Christmas Pepper** (Ball Reselected strain). 9,000 S. Compact plants with a profusion of brilliant purple and red cone-shaped fruit. Selected for absolute evenness and large brilliantly colored fruit.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Christmas Cherry. 12,000 S. (Ball strain). A compact even strain, with large, full heads of large round red fruit.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Bird's Eye Pepper. 12,500 S. Not quite so compact as above strains. Produces many very small red berries.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Royal Crown. A reselected Xmas Pepper strain.

Tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.40.

Miniature Bell. Interesting 1 to 2 in. bell-shaped fruit. Large plants.

Tr. pkt., 35c; ¼ oz., \$1.00.

STATICE

Valuable annual cut flower varieties.

Bonduelli Superba. 350 seed heads. Similar in type to *Sinuatas* but with large yellow flowers.

Tr. pkt., 15c; 1 oz., 30c; 1 lb., \$3.35.

Sinensis. 17,000 S. 18 in. Pure white with small canary-yellow flowers. Quite attractive.

Tr. pkt., 25c; 1 oz., 75c; 4 ozs., \$2.50.

Suworowi. (Russian or Rat Tail Statice). 12,000 S. Sow in Jan. for a late spring crop of this familiar Rose Rat Tail Statice.

Tr. pkt., 15c; 1 oz., 60c; 4 ozs., \$1.90.

SINUATA. 350 seed heads. A midwinter sowing brings this attractive class into flower in late spring. Flowers grown outdoors for drying extensively in southern climates.

***Market Grower's Blue.** Fine even deep blue. Excellent stock.

Kampf's Tall Improved. The standard long-stemmed blue.

True Blue. The standard blue.

***Lavender Queen.** A very pleasing shade of pastel lavender. Fine new color and good grower.

Rosea Superba. Rosy-lavender.

White.



Statice Suworowi
The pleasing rose-pink color of this "rat tail" type of Statice gives it distinctive cut flower and pot plant value.

Constructive criticism is valuable:—let's have it.

MISCELLANEOUS ANNUALS—Continued

STATICE—Continued

*New Hybrids Mixture.

A very attractive mixture of all the standard colors as well as many new hybrid shades.

Each: Tr. pkt., 15c; 1 oz., 25c; 1 lb., \$2.50.

For **Perennial Statice**, see page 50.

For **Strawflower**, see *Acroclinium*, page 27 and *Helichrysum*, page 33.

STREPTOCARPUS

Giant Flowered Mixture. (Cape Primrose). Our stock of this greenhouse winter flowering pot plant is grown by a German specialist; we are convinced no better is obtainable. Some similar to *Gloxinias* and with the same general culture necessary. Very fine seed that requires care in germinating.

Tr. pkt., \$1.00.

For **Sunflower**, see *Helianthus*, page 33.

THUNBERGIA

Excellent for an outdoor climber or for hanging baskets.

***Alata.** (Black-Eyed Susan). 1100 S. Very fine used as an annual climber, making a dense growth and producing an abundance of flowers in shades of yellow, buff, and orange—with black centers.

Tr. pkt., 15c; 1 oz., 65c; 4 ozs., \$1.75.

Gibsoni. 500 S. Extra large flowered rich deep orange. More restricted growth than *Alata* and not so free flowering.

25 seeds, 65c; 50 seeds, \$1.20; 100 seeds, \$2.25; 1 oz., \$10.00.

TITHONIA

Speciosa (Golden Flower of the Incas). 3500 S. Winter flowering in a Carnation house with roots confined to a shallow raised bed. Attractive single orange-red flowers. Early flowering strain.

Tr. pkt., 25c; ¼ oz., 75c.

Speciosa, Fireball. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

For **Tobacco Plant**, see *Nicotiana*, pages 36 and 37.

TORENIA

375,000 S. Rich combination of deep blue with deeper blotches on lip. Nice spring pot or outdoor bedding plant.

Fournieri Grandiflora. Standard variety.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Fournieri Compacta. A distinctly compact form of above.

Tr. pkt., 25c; ⅓ oz., 50c; ¼ oz., 85c.

TRACHELIUM

Coeruleum. 28,000 S. per ⅓ oz. Nice deep blue for either cutting on a raised bed from a Jan. start, or in pots.

Tr. pkt., 35c; ⅓ oz., \$1.00.

For **Umbrella Plant**, see *Cyperus*, page 31.

URSINIA

Anethoides. 19,000 S. 10 in. Brilliant single orange flowers with purple center. Early flowering tender annual for bedding or spring pot work.

Tr. pkt., 25c; ¼ oz., 60c.

VENIDIUM

65,000 S. At its best indoors in spring from a fall sowing. Grow on a raised bed in Carnation house temperature. Seed of irregular germination.

Fastuosum. Brilliant orange with dark center.

Ball Hybrids. A very interesting and varied array of colors ranging from silvery white thru orange and salmon shades.

Each: Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

VERBENA

Verbena from seed come very true with the few noted exceptions. The *Compacta* varieties and particularly the *Bouquet* varieties, make very excellent spring pot plants. Both types do well outdoors where summers are not too severe. Seed requires an early start with bottom heat.

VERBENA—Continued

GRANDIFLORA. 10,000 S. Large flowered and a dwarf spreading growth.

Apple Blossom. Extra large flowered white turning to light or "cameo" pink. Very true to color.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Beauty of Oxford Hybrids. Shades of extra deep bright pink with slight white eye. Very excellent large flowered strain with some color variation.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Blue. Deep marine shade with white eye. Prefer *Royale*.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Crimson Glow.** Extra deep rich crimson.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Dannebrog.** Bright scarlet with large white eye. Very attractive combination. Growth more compact than other *Grandifloras*.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

***Ellen Willmott.** Extra large flowered salmon-pink with white eye.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Etna. Scarlet with some white eye.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Floradale Beauty. Extra large flowered in salmon-pink shades.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Lavender Glory.** Very fine large flowered fairly deep lavender. Throws about 25% white rogues.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Lucifer. Scarlet. Spectrum Red better.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Luminosa. Deep salmon shaded pink with white eye.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Mayflower. Medium light pink.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Pure White. Very even strain.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Rosea Stellata.** Clear deep pink with white eye. Quite free flowering and a strong grower.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Royale.** Large flowered rich deep blue with contrasting white eye.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Salmon-Pink. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Spectrum Red.** Very bright rich scarlet with no eye. Lighter and brighter color than *Crimson Glow*. Very even true strain.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.



A valuable new cut flower—*Verbena Bonariensis*.

Hard work will find a job or overcome anybody's depression.

MISCELLANEOUS ANNUALS—Continued

VERBENA—Continued

Mixture of all colors in the Grandiflora class.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

COMPACTA. 10,000 S. A compact erect growing type particularly adapted for border and pot work. Quite free flowering.

Carmine Ball. 6 in. Bright carmine-scarlet.

Chamois. 6 in. Heavy cream or chamois-pink.

***Dark Blue.** 6 in. Deep marine blue.

***Fireball.** 4 to 5 in. Extra dwarf; bright fiery scarlet.

Snowball. 6 to 8 in. Fine free flowering pure white.

Mixture of all colors available in this compact class. 6 in.

Each: Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.35.

***Violet Bouquet.** 10 to 12 in. Distinctly upright symmetrical habit.

Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75.

Royal Bouquet. 10 to 12 in. Same habit as above but a mixture of all colors in this "bouquet" type.

Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

MISCELLANEOUS VARIETIES.

***Bonariensis.** 36 in. (See photo). A long-stemmed Verbena with lavender-blue flower clusters. Foliage stays near the ground making this new type well suited to cut flower work. From a March 25th sowing, our trial flowered continually from mid-July to frost. Very decorative garden plant. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.50.

Aubletia (Canadensis). 20,000 S. A hardy perennial flowering first year from seed. 12 in. Rosy-lilac flowers produced very early with us but goes off during hot summers. Quite heavily foliated. Tr. pkt., 25c; ¼ oz., 40c.

***Venosa.** 60,000 S. 8 to 10 in. A dwarf bedding Verbena that flowers continuously thruout our hot mid-Western summers. Deep lilac flowers produced quite freely.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Venosa Lilacina. 60,000 S. Same but very light blush-lilac shade. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Erinoides. (Moss Verbena). 30,000 S. Its extra strong growth makes a 3 to 4 ft. wide row 10 in. high. Small lavender flower heads quite freely produced. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Lemon Verbena. (Lippia or Aloysia Citriodora). 24 to 30 in. The old-fashioned garden favorite; leaves have a pungent lemon odor. Small white flowers. Germination apt to be slow and irregular.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

VINCA

ROSEA (Periwinkle). 21,000 S. 15 in. Few plants we have tried give as much show in color and fresh green foliage with as little care and under as adverse conditions as this old-fashioned garden Periwinkle. From an early start with bottom heat, will flower continuously from midsummer increasingly right up to frost. One of the most generally satisfactory outdoor bedding plants we have.

***Crimson** (Kermesina). A comparatively new color in Vincas. Considerably deeper than Pink—a magenta crimson.

Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

***Pink.** (Rosea). The standard medium pink.

Alba Pura. Pure White.

Alba Oculata. White with pink center.

Delicata. Light pastel pink shade.

Each: Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Mixture of above colors. Tr. pkt., 15c; 1 oz., 60c.

VIOLA

CORNUTA (Miniature Pansy). 24,000 S. As easily grown as Pansies, earlier and freer flowering. From a Jan. sowing good sized flowering plants are produced by late spring. Very nice for bedding and come quite true.



Vinca Rosea—one of the finest all purpose bedding plants.

VIOLA—Continued

Apricot. Large true apricot shade. Chantreyland better.

Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$3.00.

***Arkwright Ruby.** Maroon-scarlet with dark center. A highly attractive bright color.

Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.60; 1 oz., \$6.00.

Black Prince. Deep violet-blue.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Chantreyland.** Extra large flowered true apricot.

Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

G. Wermig. Rich violet-blue between Jersey Gem and Mauve Queen.

Tr. pkt., 50c; ⅛ oz., \$1.00; ¼ oz., \$1.60; 1 oz., \$6.00.

***Jersey Gem.** (True stock). Attractive large deep Cattleya.

Tr. pkt., 50c; ⅛ oz., \$1.75; ¼ oz., \$3.25.

***Lutea Splendens.** Clear golden yellow.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Mauve Queen. Light cattleya. Very true.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Papilio. Blue and white combination. Extra dwarf and free flowering. Small flowered.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Puck. Purple with yellow wings and dark pencilings. Small flowered.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

White Perfection. Small, pure white.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

W. H. Woodgate. Bright violet. Very fine.

Tr. pkt., 50c; ⅛ oz., \$1.15; ¼ oz., \$2.00.

Large-Flowered Mixture. Complete mixture of all large flowered varieties.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.15.

VIRGINIAN STOCK

Compacta Mixture. 60,000 S. 8 in. Nice compact bedding plant.

Tr. pkt., 15c; 1 oz., 60c.

WALLFLOWER (Annual)

14,000 S. Choice richly fragrant cut flower. In our latitude should be sown in Oct. for greenhouse flowering. We enclose a leaflet describing our method of growing this attractive flower, with each order for seed.

Gold Standard. Deep rich golden yellow. The best color.

Golden Yellow Flaked Brown.

Each: Tr. pkt., 25c; ¼ oz., 75c.

For **Perennial Wallflower**, see Cheiranthus, page 45.

Between English Blockades and German Submarines, home shortages will develop this season.

MISCELLANEOUS PERENNIALS

Our seed sales for the past few seasons show a decidedly increasing and active demand for hardy perennials, that we believe reflects a similar condition down thru the florist to the ultimate consumer—our buying public. The many new and attractive alpine and rock plants available evidence the active interest hybridizers are taking in this new interest of amateur gardeners. Recognition by florists of the value of perennial cutting beds is also stimulating interest along this line. To help you keep up in this constantly changing field of "what are the newest and best varieties?" we consider a very important part of our job as your seed supplier. The following list, altho by no means complete, we think represents a very excellent collection of hardy perennials, and we suggest that you give it careful consideration when making up your list of varieties.

Stars (*) designate those varieties that have proven most generally satisfactory and useful, and those marked (R) are very satisfactory rock garden subjects.



*An easily grown useful hardy perennial—
Achillea Filipendula, Parker's variety*

ACHILLEA

Some as noted are exceptionally valuable for summer cutting.

***Filipendula Parker's Variety** (Eupatorium). 225,000 S. 4 ft. Fall flowering. Large golden yellow umbels. Perfectly hardy with us; and if allowed to fully open, can be dried. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

***The Pearl** (Ptarmica). 175,000 S. 30 in. The standard double white for cutting. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

(R) **Tomentosa Aurea**. 190,000 S. 6 to 8 in. Finely serrated golden yellow foliage. Tr. pkt., 50c; ⅛ oz., \$1.25.

ACONITUM

Fischeri (Monkshood). 9500 S. 3 ft. Deep blue flowers in dense spikes. Sow seed outdoors in the fall and allow to stand over winter for good germination. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

(R) ALYSSUM

The two varieties following are perfectly hardy with us and make fine, free flowering rock garden or border plants.

***Saxatile Compactum**. 40,000 S. 12 in. Flowers early May. Rich golden yellow.

Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Saxatile Silver Queen (Citrinum). Same as above but a light lemon yellow.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

For **Annual Alyssum**, see page 27.

ANCHUSA

The following four varieties are perfectly hardy with us.

***(R) Barrelieri**. 5500 S. 15 in. Very fine Forget-me-not blue rock garden plant. Flowers middle to end of May. Improves *Myosotidiflora* in more vigorous growth and freer flowering.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Myosotidiflora. 10,500 S. 12 in. May flowering. Forget-me-not blue. Tr. pkt., 50c; ¼ oz., \$1.40; 1 oz., \$5.00.

ITALICA. 1100 S.

Dropmore Strain. 6 ft. Nice blue for cutting.

Tr. pkt., 15c; 1 oz., 50c.

Grandiflora Picotee. Same as above but attractively striped white.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

For **Annual Anchusa Blue Bird**, see page 28.

ANTHEMIS

Kelwayi (Hardy Marguerite). 85,000 S. 3 ft. Yellow Daisy flowers produced thruout summer.

Tr. pkt., 15c; 1 oz., 50c.

For the annual **Anthemis Arabica**, see page 28.

(R) AQUILEGIA (Columbine)

15,500 S. Introduction of several new, large flowered varieties in attractive new colors has widened the use of this old garden favorite. Excellent rock garden and border material.

Alpina. 2 ft. Blue. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Silver Queen (Chrysanth). Long-spurred white. Prefer Snow Queen. Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$1.90.

***Glandulosa Vera**. 18 in. Large spurless bright blue with white corolla. Fine compact grower for rock gardens and edges. Tr. pkts. only, 50c.

Jaetschui. Yellow with long red spurs.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.15.

***Longissima**. Delicate pale yellow with extra long (4 in.) spurs, and large flowers. Quite distinctive and richly fragrant.

Tr. pkt., 75c; ⅙ oz., \$2.25; ⅛ oz., \$4.00.

COERULEA. The long-spurred large flowered type.

Blue (Rocky Mountain Columbine). Sky-blue with white corolla. Prefer following.

Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$1.85.



Aquilegia Long Spurred Crimson Star. Dark crimson and white are the distinctive contrasting colors of this variety.

Arresting attention is the first step in selling.

MISCELLANEOUS PERENNIALS—Continued

AQUILEGIA—Continued

- ***Mrs. Nicholls.** Same as above but considerably larger flowered, and deeper, brighter color.
Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25; 1 oz., \$8.00.
- ***Snow Queen** (Candidissima). 18 in. Finest pure white variety.
Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.
- ***Crimson Star.** Deep blood-red with white corolla. Very attractive. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.20; 1 oz., \$8.00.
- Rose Queen.** Rose shades with white corolla.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.
- ***Mrs. Scott Elliott's Hybrids.** The popular long-spurred mixture.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.15.
- Mixture** of all colors in this long-spurred class.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.90.

(R) ARABIS (Rock Cress)

- 150,000 S. The following are fully hardy and flower with us end of April—one of the earliest in our perennial trials.
- ***Alpina Snowcap.** 6 in. Improves the following with a much more dwarf and compact habit. Excellent.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 55c; 1 oz., \$2.00.
- Alpina.** 12 in. White. Tr. pkt., 15c; 1 oz., 50c.

ARMERIA

- Maritima** (Statice Armeria). 17,500 S. 12 in. Lilac-rose.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

ASCLEPIAS

- Tuberosa.** 4500 S. 2 ft. Fine orange for cutting. Requires well drained location. When difficulty is found in germination, freezing over winter usually produces results.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

ASPARAGUS

- Verticillatus.** 600 S. A valuable completely hardy source of summer green material. 2 or 3 years from seed are required for large producing plants.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.85.
- For **Asparagus Sprengeri** and **Plumosus**, see page 28.

(R) ASTER (Hardy)

- Very nice material for rock garden work as well as being tall and large enuf for cutting. Very hardy and June flowering.
- ***Wartburg Star** (Subcoeruleus). 15,000 S. 18 in. Some lighter than following, larger, and longer stemmed.
Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50.
- Dark Beauty** (Alpina). 26,000 S. 12 in. Single deep blue.
Tr. pkt., only, 50c.
- Novi-Belgi.** 90,000 S. New Hybrids. Fall flowering.
Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

AUBRETIA

- Monarch Strain Mixture.** 150,000 S. 6 in. This new strain shows a particularly wide and bright color mixture of blue, lilac, mauve, and pink shades. Fine spring flowering plant for rockery and edging work.
Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

BAPTISIA

- Australis** (False Indigo). 1700 S. Sprays of pea-shaped indigo-blue flowers. 3 ft. Tr. pkt., 15c; 1 oz., 45c.

(R) BELLIS

- PERENNIS** (Double English Daisy). 100,000 S. 6 in. Well established flowering plants for spring sales are from a fall seeding carried along in frames with Pansies and Violas. Following varieties are of the large flowered double **Monstrosa** type.

BELLIS—Continued

- Red.** Deep red.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.
- Rose.** Deep rose. **White.**
Each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.
- Mixture** of all colors in this **Monstrosa** type.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.
- For **Bleeding Heart**, see *Dielytra*, page 46.

BOLTONIA

- Latisquama.** 95,000 S. 4 to 5 ft. Delicate pink.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

CAMPANULA

- (R) **CARPATICA.** 350,000 S. 12 in. Dwarf perennial.
- Blue.** **White.**
- ***Hybrid Mixture.** A new strain containing many new colors in this dwarf class.
Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.
- MEDIUM CALYCANTHEMA** (Cup-and-Saucer type).
120,000 S. 3 ft. Biennial.
- | | | | |
|---|-------------------|-------------|--------------|
| Dark Blue | Light Blue | Rose | White |
| Each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.45. | | | |
| Mixture. Tr. pkt., 15c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25. | | | |
- MEDIUM SINGLE** (Canterbury Bells). 135,000 S. 3 ft. Biennial, flowering second season from seed.
- | | | | | |
|----------------------------------|--------------|-------------|--------------|----------------|
| Blue | Lilac | Rose | White | Mixture |
| Each: Tr. pkt., 15c; 1 oz., 40c. | | | | |



Campanula Medium Calycanthema—Cup-and-Saucer type.

No outdoor florist crop pays without equipment for artificial watering.

MISCELLANEOUS PERENNIALS—Continued

CAMPANULA—Continued

PERSICIFOLIA. 340,000 S. 30 in. Perennial. A very generally satisfactory perennial Campanula.

White **Blue** **Mixture**
Each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

PYRAMIDALIS (Chimney Campanula).

250,000 S. 5 ft. Erect pyramidal habit.

Mixture. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

For **Annual Campanula**, see page 28.

For **Perennial Candytuft**, see *Iberis*, page 47.

CARNATION

GRENADIN (Hardy Carnation).

14,000 S. 20 in. Good for cutting but needs winter protection.

Golden Sun. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.25.

Pink. Tr. pkt., 35c; ¼ oz., 70c; 1 oz., \$2.50.

Red. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.25.

White. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Mixture. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

CATANANCHE

Coerulea. 16,000 S. 30 in. Everlasting light lavender-blue Centaurea-like flowers produced freely first year from seed.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

CENTAUREA

Montana. 1600 S. 24 in. Large Cornflower-blue flowers.

Tr. pkt., 15c; 1 oz., 50c.

For **Annual Centaurea Cyanus**, see pages 29 and 30.

(R) CERASTIUM

Tomentosum. 10 to 12 in. 42,000 S. Very fine May flowering white edging and rockery plant. Silvery white foliage. Perfectly hardy.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

CHEIRANTHUS (Wallflower)

19,000 S. 18 in.

***Golden Bedder.** Large deep golden yellow.

Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Allioni (Siberian Wallflower).

Free flowering brilliant orange.

Tr. pkt., 10c; 1 oz., 30c.

For **Annual Wallflower**, see page 42.

CHRYSANTHEMUM

Very colorful for fall landscape work, perfectly hardy and quite free flowering. Watch frost dates tho.

***Japonicum.** (Japanese Mountain or Cascade type). A very free flowering single seedling strain; hardy and flowers first season from seed. Our strain is a very strong growing one and with proper pinching, and staking, can be trained into various decorative shapes including the beautiful "Cascade" type. With two or three pinchings in early summer, makes a very decorative and free flowering garden plant also.
Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.75.



Coreopsis Mayfield Giant

In Florida Delphinium and some other perennials are grown as annuals.



*Vetterle and Reinelt's Giant Pacific Clean White Delphinium.
Photo taken May 1, 1939.*

CHRYSANTHEMUM—Continued

Indicum. 77,000 S. Attractive large flowered double and semi-double types. Flowers late September or early October.
Tr. pkt., 50c; ⅛ oz., \$1.25.

Korean Hybrids. 60,000 S. 3 ft. Single and semi-double types. Very attractive color mixture. Flowers first part of October.
Tr. pkt., \$1.00; ⅛ oz., \$2.00.

For **Chrysanthemum Leucanthemum**, see *Daisy* on this page.
For **Columbine**, see *Aquilegia*, pages 43 and 44.

COREOPSIS

GRANDIFLORA. 11,000 S. The two varieties listed are of the new large flowered class. Fine material for summer cutting.

***Sunburst** (New Gold). A fine semi-double strain.
Tr. pkt., 20c; ¼ oz., 35c; 1 oz., 90c.

***Mayfield Giant.** Extra large deep golden yellow. Single.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 65c.

DAISY (Chrysanthemum Leucanthemum)

Excellent perennial cut flower material. Can be grown outdoors—perfectly hardy—or forced either in cold frames or indoors in early spring. Following listed in order of flowering season.

Elder. 65,000 S. Earliest flowering—early June.
Tr. pkt., 15c; 1 oz., 75c.

***June Marguerite.** 40,000 S. Large June flowering variety.
Tr. pkt., 15c; 1 oz., 75c.

Spring Marguerite. Tr. pkt., 15c; 1 oz., 75c.

***Mayfield Giant.**
21,000 S. Quite large flowered, end of June.
Tr. pkt., 20c; 1 oz., 80c.

Alaska. 21,000 S. The standard Shasta Daisy. July.
Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

Double Fringed (Diener's). 18,000 S. Comes around 50% good double types that should be propagated by division.
Tr. pkt., 50c; ⅙ oz., 90c.

Conqueror. 21,000 S. Giant late white. Late July.
Tr. pkt., 20c; 1 oz., 80c.

English Daisy, see *Bellis*, on page 44.

MISCELLANEOUS PERENNIALS—Continued

DELPHINIUM 10,000 S.

***GIANT PACIFIC HYBRIDS.** The new Vetterle & Reinelt Giant Pacific Hybrid strains continue their top position in the commercial hybrid Delphinium world. Even the past summer—their third season—there was still a decided shortage of good plants. Supplies of fresh seed are still available in quantity with the exception of the new Lancelot Series that, as you will note, is sold out until next summer. Fine salable plants can still be produced from a January sowing for next summer's sales of all varieties. See novelty list, page 3, for further description.

Galahad Series (New). Described by the originator as an improvement over Giant Pacific Clear White in purity of color, size of flowers, and general trueness of strain. The *finest white Delphinium in existence* from seed. (Originator's seed only.)

Tr. pkt., \$2.00; 1/8 oz., \$4.00; 1/4 oz., \$7.00; 1 oz., \$24.00.

Lancelot Series (New). Clear lilac self; extra large flowered and a fine pastel shade. Sold out until '40 crop that is usually available early in July.

***Blue Shades.** Our most popular strain, a mixture of the originator's Light Blue and Dark Blue Shades.

Lavender Pastel Shades. A fine mixture of pastel lavender shades.

Violet Shades. Deep rich violet-blue colors with many contrasting white bees.

Pastel Shades. A very fine pastel mixture of pastel lavender and blue shades.

***Mixture.** A complete mixture of all above and many intermediate shades. A supremely fine complete mixture of Hybrid Delphinium. Prices on above, except first two new ones, each:

Tr. pkt., \$1.00; 1/8 oz., \$2.00; 1/4 oz., \$3.50; 1 oz., \$12.00.

***Clear White.** Excepting possibly the new Galahad Series listed above, the finest clear white Delphinium available from seed. Very large, clear, white flowers, double and semi-double set on long spikes. Forces very well.

Tr. pkt., \$1.25; 1/8 oz., \$2.50; 1/4 oz., \$4.00; 1 oz., \$14.00.

OTHER VARIETIES.

***Belladonna Improved.** A carefully reselected strain of this standard light blue.

Tr. pkt., 30c; 1/4 oz., 50c; 1 oz., \$1.85; 1 lb., \$24.00.

***Lamartine.** Fairly deep, extra bright marine-blue. An outstanding strain for color and excellent cut flower habit.

Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$5.00.

Bellamosum Improved. A reselected strain.

Tr. pkt., 30c; 1/4 oz., 50c; 1 oz., \$1.85; 1 lb., \$24.00.

Belladonna. The original or regular strain.

Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.60.

Iceberg. Giant Pacific Clear White is much superior.

Tr. pkt., 35c; 1/4 oz., \$1.20; 1 oz., \$4.00.

***Blackmore and Langdon Hybrids.** A fine free flowering long-stemmed Hybrid strain for cutting.

Tr. pkt., 50c; 1/4 oz., 90c; 1 oz., \$3.00; 4 ozs., \$9.00.

Wrexham or Hollyhock Strain. Extra large tapering spikes.

Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$5.00.

Gold Medal Hybrids. Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.50.

(R) DIANTHUS 28,000 S.

Allwoodi Alpinus Mixed. 8 to 10 in. 1 1/2 in. single flowers in shades of pink. Early June flowering and perfectly hardy.

Tr. pkt., 35c; 1/4 oz., \$1.10.

***Deltoides Erecta.** 6 in. June flowering. A dwarf compact Maiden Pink. Bright red flowers produced very freely. Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.50.

Knappi. 12 to 15 in. June flowering. Small clusters of single yellow flowers at tip of each branch. Perfectly hardy with us.

Tr. pkt., 50c; 1/8 oz., \$1.60.

***Neglectus, Rose Cushion.** 6 in. Very attractive neat rock plant. Many small rose-pink flowers extending above a dense mat of foliage, end of May. Perfectly hardy.

Tr. pkt., 50c; 1/16 oz., \$1.10.

DIANTHUS—Continued

***Loveliness.** 20 in. Large, freely produced, light lavender flowers, quite fragrant and with highly fringed and curled petals. Tr. pkt., 50c; 1/16 oz., \$1.25.

PLUMARIUS. A medium dwarf, free flowering class. Very fine for rock garden and general dwarf decorative work. A pronounced spicy odor accounts for the nickname, Clove Pink.

***Cyclops.** 15 in. 1 1/2 in. single flowers in pleasing rose shades; all with contrasting dark centers. Flowers very profusely middle of June.

Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.00.

Scoticus. (Double Scotch Pink). 12 in. 1 in. double and semi-double flowers in attractive shades of white, pink, and rose. Quite free flowering. Perfectly hardy.

Tr. pkt., 35c; 1/4 oz., 90c.

Single Mixture. 20 in. Very free flowering mixture.

Tr. pkt., 15c; 1 oz., 50c.

BARBATUS (Sweet William). 24 in. Early June flowering. Perfectly hardy, flowering second season from seed.

***Holborn Glory.** Striking combination of deep crimson with white.

Tr. pkt., 15c; 1 oz., 50c.

***Newport Pink** (Pink Beauty). A particularly deep rich salmon-rose shade. Very attractive rich pastel.

Tr. pkt., 15c; 1 oz., 50c.

Purple Beauty. Bright deep purple.

Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.00.

Scarlet Beauty. Well named.

Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

White. Tr. pkt., 15c; 1 oz., 50c.

Single Mixture of all colors in this class.

Tr. pkt., 15c; 1 oz., 50c.

Double Mixture. Tr. pkt., 15c; 1 oz., 60c.

(R) *Midget. Very fine neat alpine and rock plant. 6 to 8 in. with dense heads of Sweet William flowers.

Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$3.00.

For **Annual Dianthus**, see page 32.

DICTAMNUS

Fraxinella (Gas Plant). 1700 S. 30 in. Pink with dark veins. Good border plant. Sow seed in the fall and allow to stand outdoors over winter for good germination.

Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.35.

DIELYTRA (Dicentra)

Spectabilis (Bleeding Heart). 1600 S. 32 in. Sow seed in fall and allow to stand outdoors over winter for good germination. Flowers second season from seed.

Tr. pkt., 50c; 1/4 oz., \$3.00; 1 oz., \$10.00.

DIGITALIS

GLOXINIOIDES (Foxglove). 180,000 S. 4 ft.

Purple **Rose** **White** **Giant Shirley Mixture**
Each: Tr. pkt., 15c; 1 oz., 50c.

DORONICUM

18,000 S. (Leopard's Bane). Attractive yellow Daisy-like flowers on good stems for cutting.

***Bunch of Gold** (Pardalanches). 30 in. Long-stemmed and extra free flowering. Fine. Tr. pkt., 75c.

Caucasicum. 2 ft. The standard variety.

Tr. pkt., 50c; 1/16 oz., \$1.00.

For **Edelweiss**, see *Leontopodium* on page 47.

ECHINOPS

Ritro (Ornamental Thistle). The largest of the ornamental Thistles. Flowers 1 1/2 to 2" in diameter with a fine blue color.

Tr. pkt., 15c; 1 oz., 40c.

EREMURUS

Species Mixed. Tall stately flower spikes 4-8 ft. in shades of pink and white. Hardy in Chicago if in a well drained location and with protection.

Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.75.

Growing greenhouse crops is a profession and a business, and one way or another, it costs to learn it.

MISCELLANEOUS PERENNIALS—Continued

ERYNGIUM

Bourgati (New). 20 to 24 in. June flowering. Bright steel blue heads and deeply cut veined leaves are quite attractive.

Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.75.

Amethystinum. 19,000 S. 3 ft. Large Amethyst-blue.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.85.

EUPHORBIA

Corollata (Wild Baby's Breath). 8700 S. 24 in. Large Gypsophila-like pure white flowers. Thrives on very poor soil.

Tr. pkt. only, 35c.

Polychroma. 15-20 in. Very compact symmetrical plant producing brilliant yellow bracts of leaves at tip of branches middle of May. Perfectly hardy with us.

Tr. pkt., 50c; ⅛ oz., \$1.00.

Myrsinites. Attractive succulent-like silvery green growth; semi-prostrate in habit. Each branch produces a brilliant yellow bract of leaves in May. Perfectly hardy and vigorous growing with us. 6-8 in. tall.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

For **Flax**, see Linum, page 48.

For **Feverfew**, see Matricaria, page 48.

For **Foxglove**, see Digitalis, page 46.

GAILLARDIA

GRANDIFLORA. 9500 S. The following strains, except the dwarf Goblin, altho varying some in color, are all excellent cut flower sorts—large flowered and borne on long-strong stems.

***Chloe**. Fairly large flowered clear yellow with yellow center. Comes very true, but germination somewhat slow and irregular.

Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

***Dazzler**. The standard fine cutting strain.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

***Monarch Strain**. A very superior mixture of large full petaled flowers with an unusually bright color mixture.

Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.75.

Burgundy. Deep shade of wine red.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Maxima Aurea. Yellow.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

The King. Large deep red flowers edged gold.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Oculata New Hybrids. Mixture of pastel shades containing many attractive original colors. Good long stems for cutting.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Portola Hybrids Mixed. Standard hybrid mixture.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.45.

Goblin. Dwarf strain for decorative bedding and border work. 12 to 14 in. Forms very attractive compact plants.

Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$3.00.

For **Gas Plant**, see Dictamnus, page 46.

GEUM

7000 S. 24 in. Fine for cutting or garden decoration.

Lady Stratheden. Double golden yellow.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.65.

Mrs. Bradshaw. Double glowing red.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

(R) **Borisii**. 12 to 15 in. (true stock). A very attractive early May flowering species. Brilliant single orange-scarlet flowers. Perfectly hardy border or rock garden subject.

Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.25.

GYPSOPHILA

34,000 S. A planting of several varieties of hardy Gyp is interesting and valuable for outdoor summer cutting.

***Pacifica**. 42 in. Flower size of Paris Market annual with an attractive shade of bright pink. Nice.

Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

***Oldhamiana**. 30 in. Very fine dense heads of feathery light rose-pink flowers. Flowers first season from an early sowing. October flowering—watch frost dates.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.85.

Unless a crop is uniformly well grown today, chances are it represents a loss.

GYPSOPHILA—Continued

PANICULATA. The regular white hardy Gyp. Note that double grafted varieties like Bristol Fairy are **not** available from seed.

***Double Snow Flake**. 40 in. An improved double hardy Gyp.

Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.85.

Single White. Tr. pkt., 15c; 1 oz., 35c.

(R) **REPENS**. 6 in. An attractive hardy rock garden plant.

Rose. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

White. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

For **Annual Gyp**, see page 33.

(R) HELIANTHEMUM

Mutabile (Rock Rose). 15,000 S. 8 to 10 in. Very attractive dwarf evergreen rock plant. Tr. pkt., 20c; 1 oz., 80c.

HESPERIS

Matronalis (Sweet Rocket). 15,000 S. 3 to 4 ft. Red.

Tr. pkt., 10c; 1 oz., 25c.

HEUCHERA

Sanguinea (Coral Bells). 750,000 S. 24 in. Crimson. An attractive garden plant with some value for cutting.

Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.50.

HOLLYHOCK

Imperator. 2700 S. Choice double fringed mixture.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Allegheny Mixed. 2700 S. Single and semi-double types.

Tr. pkt., 15c; 1 oz., 50c.

CHATER'S DOUBLE. 3100 S. The standard double Hollyhock strain.

Chamois

Deep Rose

Lilac Beauty

Mixture of all colors.

Newport Pink

Scarlet

Sulphur Yellow

White

Each: Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

(R) IBERIS 11,500 S.

Gibraltarica. Large flowered lilac.

Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Sempervirens. 12 in. Flowers end of May. White. Seedlings flower second season.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

LATHYRUS

LATIFOLIOUS (Hardy or Everlasting Sweet Pea).

550 S. Perfectly hardy abundant source of short-stemmed flowers.

Pink Beauty

White Pearl

Red

Mixture

Each: Tr. pkt., 15c; 1 oz., 40c.

LAVANDULA

Vera (True Sweet Lavender).

32,000 S. Old-fashioned garden plant. Seed irregular and slow in germinating.

Tr. pkt., 15c; 1 oz., 60c.

LEONTOPODIUM

Alpinum (Edelweiss). 275,000 S. Attractive rock garden plant in cool climates. Small greenish white leaves.

Tr. pkt., 50c; ⅛ oz., \$1.00.

LIATRIS (Blazing Star)

9500 S. Excellent cut flowers, long decorative, bold spikes. Used very effectively in basket arrangements.

***Pycnostachya**. Extra long-stemmed—3 to 5 ft. with long—5 to 18 in.—rosy purple flower spikes. Finest cut flower kind.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Spicata. Not quite so long-stemmed or with as long flower spikes as above. Prefers a damp low location. Rosy purple.

Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

MISCELLANEOUS PERENNIALS—Continued

LIATRIS—Continued

Scariosa. Extra large individual flower heads on long, loosely set spikes. Rosy purple. Tr. pkts. only, 35c.

***Scariosa White.** A very fine pure white form of above. Long closely set flower spikes. Excellent cut flower or decorative plant. Our strain comes about 85% true to type. Tr. pkt., 50c; ¼ oz., \$1.35; 1 oz., \$4.75.



A bed of our new White Queen Lily from seed in full flower.

LILIES FROM SEED

The new White Queen has added new importance to seed-produced Lilies. In addition to low initial cost (no bulb bills) and absolutely disease free stock, this new strain flowers 12 to 14 months from seed and with flowers fully equal to fine Erabu specimens. Used considerably as a cut flower strain. A chapter in the "Red Book," "Lilies From Seed," treats fully our experience in handling this crop.

***White Queen.** 8200 S. The largest flowered Pure White seed propagated Lily we know of. A fine variety. ½ tr. pkt., 60c; tr. pkt., \$1.00; ⅛ oz., \$1.75; 1 oz., \$12.00.

Philippinense Formosanum, Giant Flowered. 8200 S. An improved form of the original stock of Philippine Lily. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.25; 4 ozs., \$10.00.

Philippinense Formosanum Improved. 8200 S. The original Philippine Lily.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 ozs., \$5.50.

Regale (Regal Lily). 6500 S. Pink with primrose center.

Tr. pkt., 15c; 1 oz., 50c.

LINUM

Perenne (Perennial Flax). 8500 S. Blue.

Tr. pkt., 15c; 1 oz., 40c.

You don't definitely know whether a crop is a loss or a profit without a cost accounting system.

LOBELIA

The two following are perfectly hardy, very showy garden plants usually grown in damp low locations.

Cardinalis (Fulgens). 725,000 S. (Cardinal Flower). 36 in. Produces long tapering spikes of cardinal-red flowers.

Tr. pkt., 25c; ¼ oz., 85c; 1 oz., \$3.00.

Syphilitica. 1,750,000 S. 2 to 3 ft. Attractive blue spikes. Tr. pkt., 25c; ¼ oz., 90c.

LUNARIA

BIENNIS (Honesty or Money Plant). 1500 S.

White	Crimson	Mixture
Each: Tr. pkt., 15c; 1 oz., 45c.		

LUPINUS

POLYPHYLLUS (Hardy Lupine). Fine cutting material. Requires a well drained location and thrives best in cool climates.

***Russell Strain.** 1000 S. From all indications, this novelty is meeting all the originator's claims for it. For the home gardener and retail grower who wants a bed of Hardy Lupines for cutting, the new Russell Strain is by all means the one to use. Unusually long closely set flower spikes and the widest range of attractive colors found in Hardy Lupines.

We offer bulk seed of this new strain, grown from originator's stock seed as follows.

Tr. pkt., 75c; ¼ oz., \$1.40; 1 oz., \$5.00.

We also carry the originator's **Reselected Stock** as follows: 20 seeds, 20c; 65 seeds, 50c; 150 seeds, \$1.00; 350 seeds, \$2.00.

MISCELLANEOUS POLYPHYLLUS VARIETIES. 1450 S.

Chocolate Soldier. Yellow shading to chocolate.

Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.25.

Dark Blue. Tr. pkt., 15c; 1 oz., 30c.

Luteus. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Rose. Tr. pkt., 15c; 1 oz., 50c.

White. Tr. pkt., 15c; 1 oz., 30c.

***Harkness Regal Mixture.** The standard fine hybrid mixture containing all colors in this class.

Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.65.

For **Annual Lupine**, see page 35.

LYCHNIS 64,000 S.

Alpina. Rose. 12 in. Nice dwarf rock garden plant.

Tr. pkt., 25c; ⅛ oz., 85c.

Chalcedonica. 36 in. Scarlet.

Tr. pkt., 15c; 1 oz., 50c.

MATRICARIA Capensis (Feverfew) 145,000 S.

***Ball Double White.** Since introducing this strain in '34, demand for it is constantly increasing as a standard greenhouse and outdoor cut flower crop. Plants from a Jan. or Feb. sowing produce a full crop of flowers outdoors this summer and can then be lifted and transplanted indoors in November for a forced spring greenhouse crop. Differs from ordinary cutting propagated strain in having smaller and more compact completely double flowers that hold up much better in shipping and handling. Responds readily to additional lighting for forcing. ½ tr. pkt., 30c; tr. pkt., 50c; ⅛ oz., \$1.00; ¼ oz., \$1.75.

Double Golden Ball. 10 in. Dwarf, semi-double yellow.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

For **Monkshood**, see Aconitum, page 43.

MISCELLANEOUS PERENNIALS—Continued



*Ball Matricaria outdoors in July 90-95 per cent double.
Sowing for above crop was made February 1st.*

MYOSOTIS (Forget-me-not) 42,000 S.

- ***Blue Bird** (Oblongata). 12 in. Standard deep blue Forget-me-not for Spring greenhouse flowering.
Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.
- Palustris**. True Marsh Forget-me-not. Hardy with us. Blue.
Tr. pkt., 20c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.
- ALPESTRIS**. Biennial.
- ***Royal Blue** (Indigo blue). 12 in. Deep rich blue.
Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.
- Pink Bouquet** (Stricta Grandiflora). Medium deep pink shade; compact upright habit.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.
- Blue Basket**. 12 in. Deep blue. More spreading habit.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.
- White**. 12 in. Spreading habit. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., 90c.

For other Myosotis including our **Ball Early**, see page 36.

NEPETA

- Mussini**. 52,000 S. 12 in. Light blue. June flowering Catnip.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.
- For **Painted Daisy**, see Pyrethrum, next page.
- For **Oriental Poppy**, see this page.

PHLOX (Perennial)

- Hybrid Mixture** (Decussata). 2500 S. 3 ft. Our Strain contains many new large flowered, brilliantly colored types.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.60.

PHYSALIS

- Francheti** (Chinese Lantern Plant). 18,000 S. Large decorative orange seed pods. Tr. pkt., 15c; 1 oz., 60c.

PHYSOSTEGIA

- Virginica**. 16,000 S. 4 ft. Rosy lilac.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.50.
- For **Pinks**, see Dianthus, pages 32 and 46.

PLATYCODON

- GRANDIFLORUM** (Tufted Harebell or Balloon Flower). 28,000 S. 24 in. Very attractive for spring sales, perfectly hardy.
- White and Blue**, a clear deep violet-blue.
Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Usually the more stock grown, the lower are returns. Don't overdo.

POPPY

- ORIENTALE** (Oriental Poppy). 140,000 S. Altho not suited to shipping or much handling, Oriental Poppies are unsurpassed for brilliant colors. If cut in the bud stage, they last several days in water. Sow seed in pots and transplant into the field when small so as not to disturb the roots.
- ***Olympia**. A seed produced strain of this fine standard orange-scarlet variety. Perfectly hardy, of course, and produces 50% true semi-double flowers. Some earlier flowering than following varieties. Tr. pkt., 60c.
- Beauty of Livermere**. Dark oxblood-red.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.
- Brilliant**. 40 in. Vivid, fiery red.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.
- Mrs. Perry**. Fine salmon-rose.
Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.15.
- Mixture** of all colors in this class.
Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.25.



The new Primula Veris Colossea above is rapidly finding its place in the pot plant field.

(R) PRIMULA

- Vulgaris** (True Yellow English Primrose). 19,000 S. 6 in. For good germination in spring, sow seed in the fall and allow to stand outdoors over winter. Tr. pkt., 35c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.85.
- Bulleesiana Hybrids**. 130,000 S. 18 in. Bright mixture of colors. Considerable care required to germinate this fine seed.
Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.15.
- VERIS**. 33,000 S. This class of hardy dwarf Primulas are being increasingly used for bedding work in shady, cool locations and also for spring pot plants from summer or early Fall sowings.
- ***Colossea**. Our trials of this new strain show a real improvement in flower size, bright colors, and strong growth. Tr. pkt., 75c.
- Kleyni**. A particularly valuable hardy Primula because of extra long stems and large flower heads. Easily forced in spring for pot plant work. 100 seeds, 40c.
- ***Giant Munstead Strain**. The standard strain for bedding. Not so tall as above; in shades of yellow. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.00.
- Polyanthus Mixture**. Unwin's Strain. 12 in.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.15.
- For other **Primula** varieties, see page 22.

PYRETHRUM

- The **ROSEUM** type on next page contains the standard cut flower varieties.
- Ptarmicaeflorum**. 340,000 S. 5 in. Very dwarf finely feathered silvery white foliage.
Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.15.

MISCELLANEOUS PERENNIALS—Continued

PYRETHRUM—Continued

- Parthenifolium Aurea, Excelsior.** 325,000 S. 3 in. Same as above but foliage distinctly yellow-green and dwarf.
Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.
- Uliginosum.** 62,000 S. 3 ft. Single white, Daisy-like flowers.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.
- ROSEUM** (Painted Daisy). 18,000 S. The standard hardy cut flower class.
- *Semi-Double Mixture.** An excellent strain that requires large mature clumps to produce its fully double flowers.
Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.85.
- *James Kelway.** Fine dark red cut flower variety.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$2.85.
- Atrosanguineum.** A popular dark crimson strain.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.
- *Robinson's Hybrids.** Large single mixture.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$3.00.

RUDBECKIA

- Purpurea** (Echinacea). 7000 S. 4 ft. Reddish purple.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.50.

SALVIA

- Patens.** 3800 S. 30 in. Navy blue hardy Salvia.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

SAPONARIA

- Ocymoides.** 5500 S. 12 in. Trailing rose hardy rock plant.
Tr. pkt., 20c; 1 oz., 60c.

SCABIOSA

- 2400 S. Excellent perennial cut flower material. Larger flowered than the popular annual form, perfectly hardy, and early flowering. Seed germination sometimes slow and irregular.
- Columbaria Lavender.** Delicate color.
- Columbaria Pink.** Orchid-pink shade.
- Caucasica Perfecta.** Large flowered improved form of this lilac-lavender strain. Each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.
- *Caucasica, House Hybrids.** Shades of lavender and blue. Use this strain for a small bed of hardy cutting Scabiosa.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.85.
- Fischeri.** 30 in. rounded bushy plants. Flowers medium-sized and a bright lilac-lavender color. Very free flowering decorative plant as well as producing plenty of cut flower material. Perfectly hardy with us. Tr. pkt., 50c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00.

(R) SEDUM

- 700,000 S. A very excellent fully hardy rock garden family; the following are easily propagated from seed and come true.
- *Acre.** 3 in. A very nice extra dwarf evergreen. Small light yellow flowers produced in June account for its common name—Golden Moss. Very strong hardy grower. Tr. pkt., 25c; $\frac{1}{8}$ oz., 75c.
- *Aizoon.** 4 in. Attractive dwarf form, bright yellow with contrasting reddish brown foliage. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.35.
- Kamtschaticum.** 6 to 8 in. Very nice green foliage with yellow flowers. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50.
- Reflexum, Chameleon.** Growth starts green, gradually turning buff or light brown shades as season advances. Bright yellow flowers in midsummer. 8 to 10 in. in fall. Tr. pkt., 50c.
- *Bronze Carpet** (Spurium Coccineum). 4 in. Attractive deep bronze foliage. Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.35.

SEMPERVIVUM (House Leek)

- Perennial Mixture.** 325,000 S.
Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.35.

SPERGULA

- Pilifera.** 25,000 S. per $\frac{1}{32}$ ounce. Rounded compact hard growth; small white flowers in June. Attractive for planting between stones or for borders. Partially hardy in our latitude.
Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.50.

Good salesmen are usually of real service, but send the high pressure type on their way.

STATICE

- Perennial Statice are very hardy, make good cut flower material and some as noted can be successfully dried and dyed.
- Caspia.** 175,000 S. 30 in. Seedlings flower second season.
Lilac.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.
- Dumosa.** 19,000 S. 18 in. Dense clumps of silvery gray flowers produced second season from seed.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.65.
- Incana** (Tatarica). 13,000 S. 14 in. Small white flowers that may be dried.
Tr. pkt., 15c; 1 oz., 65c.
- *Latifolia** (Sea Lavender). 40,000 S. 30 in. Standard blue perennial Statice. Very hardy and may be dried.
Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.
- Perezi.** 14,000 S. Flowers in large lavender heads first year from seed, but not completely hardy with us.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.65.
- Puberula.** 5200 S. 8 to 10 in. A dwarf form with flower heads similar to S. Latifolia. Flowers second season.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.
- For **Annual Statice**, see page 40.

STOKESIA

- Cyanea.** 3300 S. 16 in. Large blue flowers.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.
- For **Sweet William** see *Dianthus Barbatus*, page 46.

THALICTRUM

- Dipterocarpum.** 12,000 S. 3 to 4 ft. Early June flowering. Rosy purple clusters of flowers good for cutting or garden decoration. Flower second season with us.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.
- Adiantifolium.** A dwarf form—18 in.—and with fine textured foliage not unlike *Adiantum* fern; yellow flowers.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.60.
- Aquilegifolium.** 40 in. Shades of lilac and mauve.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.60.

TRITOMA

- Mirabilis Hybrids.** 20,000 S. Yellow and orange shades. Varies.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

TROLLIUS

- LEDEBOURI** (Globe Flower). 8000 S. Good cutting and decorative plants. Sow seed in fall and allow to stand outdoors over winter for good germination.
- Golden Queen.** 3 to 4 ft. A fine early large orange variety.
Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.40.
- Orange.** 24 in. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50.

TUNICA

- Saxifraga.** 150,000 S. 8 to 10 in. Small rosy lilac flowers produced first season from seed. Tr. pkt., 15c; 1 oz., 60c.

VALERIANA

- Rubra.** 13,000 S. 36 in. Deep crimson. Good for cutting.
Tr. pkt., 15c; 1 oz., 60c.

VERONICA 250,000 S.

- Longifolia.** 30 in. Compact, dense spikes of blue flowers. Very graceful decorative garden plant.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.
- *Repens.** 1 to 2 in. Very dense flat growth, excellent for between stones planting or other purposes requiring a spreading flat growth. Covers itself with white flowers early in May.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.
- For **Wallflower**, see *Cheiranthus*, page 45.
For **Annual Wallflower**, see page 42.

VEGETABLE SEEDS FOR FLORISTS

WITH increasing interest in home gardens, florists should take full advantage of the opportunity of supplying vegetable plants that are sure to be called for in increasing quantity—especially Tomato, Pepper and Cabbage. In our list of varieties you will find those adapted to home garden use as well as varieties suitable for those who grow for market.

THOSE WOODEN PLANT BANDS

In growing vegetable plants for early crops or for selling to home gardeners, band grown plants are of particular value. When these plants are put out without the heavy check that follows when dug from the open soil, they get into bearing earlier. For vegetable plants we recommend the larger sizes. Selling bedding or vegetable plants is made more attractive when offered in these bands. See inside front cover page of this catalog for full description, sizes, and prices, of these bands.

NEW EVERBEARING STRAWBERRY

Baron Solemacher. This variety improves in size and length of fruit the variety RUGEN, sent out by us a few years ago. The product of a German specialist. If sown early February, will produce freely by autumn. Should be watered when dry, and they enjoy some protection from the strong sun. Tr. pkt. (1000 seeds), 50c.

BEET

	1 oz.	4 ozs.	1 lb.
Crosby's Egyptian. (Original Strain). 55 days. Extra early for home and market gardeners. Globe-shaped. Dark purplish red, crisp and tender, excellent quality	\$0.10	\$0.25	\$0.90
Detroit Dark Red. (Improved Strain). 55 days. Standard for home and market garden. Uniform globe-shaped. Blood-red, tender until full grown.....	.10	.25	.80

CABBAGE

All Head Early. Good winter keeper. Deep heads, firm, fine quality, valuable for kraut, 77 days.....	.20	.60	1.90
Copenhagen Market. Regular early. Medium sized heads; compact, good yielder, 70 days.....	.25	.75	2.25
Danish Ballhead. Best late variety, heads large, flat, firm and solid, keeps in storage until late spring.....	.30	.75	2.50
Early Dwarf Flat Dutch. Splendid for home and market garden; heads almost ball-shaped, firm, fine flavor and high quality, 71 days.....	.25	.65	2.00
Early Jersey Wakefield. Extra early, valuable for home or market growers. Plants small, allowing close planting; firm heads, 2-2¼ lbs. 62 days. Sure header, fine for southern shippers .....	.20	.70	2.20
Golden Acre. (Danish grown). Earliest round head variety for early market and shipping. Short stem. 62 days. Uniformly firm round heads, matures evenly.....	.40	1.10	3.75
Large Wakefield. Heads larger and broader, but fully a week later than Early Jersey Wakefield.....	.20	.65	2.00
Late Flat Dutch. The best large late variety. Popular for home and market garden and shipping. Good keeper, firm heads of good quality. 110 days. Very hardy and dependable .....	.20	.60	1.75
Mammoth Rock Red. Best red variety. Good keeper, round hard heads, deep purplish red, 90 days.....	.30	.85	2.75
Round Red Dutch. Hard heads, good for shipping .....	.20	.65	2.00
Savoy Improved American. The best of this class, medium large, firm heads; fine flavor, 85 days.....	.30	.75	2.75
Wisconsin All-Season Resistant. Valuable in localities infested with "cabbage yellows." Good winter keeper; large flat hard heads. Excellent kraut variety. 90-95 days.....	.35	.80	3.50

CARROT

Gousenheimer, Forcing Special. Fine for forcing or home garden. Nearly coreless. Half-long. Especially adapted for forcing.....	.25	.85	
Chantenay. Fine all-purpose variety for home and market garden and shipping. Dependable heavy yielder. Good for winter storage. 70 days.....	.15	.40	1.15
Danvers Half-Long. Very productive and uniform. Bright orange—much used for shipping. 75 days.....	.15	.40	1.20

CAULIFLOWER

Danish Giant Dry Weather. Most dependable, large fine heads, 65 days.....	¼ oz., 65c; ½ oz., \$1.15..	2.00
Early Dwarf Erfurt. An extra early variety, plants dwarf, dependable header, heads firm, medium size, fine for market gardeners	Tr. pkt., 25c; ¼ oz., 60c; ½ oz., \$1.00..	1.75
Early Suowball. Best early greenhouse-forcing variety, medium pure white heads, good shipper. The standard of excellence. 52 days.....	¼ oz., 60c; ½ oz., \$1.00..	2.00

CELERY

Golden Plume or Wonderful. Better and earlier than Golden Self Blanching, a leader for market gardening and shipping	½ oz., 35c..	.60	1.60
Golden Yellow Self-Blanching Dwarf. Standard market and shipping sort.....	½ oz., 35c..	.50	1.75

CELERIAC

Large Smooth Prague. Turnip-rooted celery. Fairly smooth, stalks hollow, keeps until late winter.....	.25	.75	
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CUCUMBER

Straight 8. (All America Gold Medal Winner). An outstanding variety, producing symmetrical cylindrical fruits about eight inches long, 1½ inches in diameter; deep green, when ready for use, and an ideal shipper. Also desirable for home and market gardens.....	.20	.50	1.50
Chicago Pickling. (Westerfield). Most valuable for pickling and slicing. 6-7 inches, uniform, 60 days.....	.15	.35	1.25
Davis Perfect. Fine slicing variety. Good shipper. 9-11 inches. Good for greenhouse growing.....	.15	.40	1.25
Early Fortune. Best for slicing or shipping. Dark green. 8-9 inches long. Uniform. 68 days.....	.15	.40	1.25

EGGPLANT

Black Beauty. Popular home and market variety. Rich dark purple .....	.35	1.40	
Improved Large Purple. (Spineless). The standard home and market sort, early, good producer.....	.30	1.35	

KALE

Dwarf Green Curled. Very hardy, 12-15 inches tall, 30 inch spread. Finely curled.....	.15	.25	.80
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KOHLRABI

Early White Vienna. Standard sort for forcing and home garden. Globe-shaped. 60 days outdoors.....	.25	.65	
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LETTUCE

Big Boston. Select stock. Most widely popular of all heading Lettuce. Largely used for summer and fall hot-bed and cold frame culture. Cabbage butter-head type, excellent quality.....	.20	.50	1.25
Black-Seeded Simpson. Early, dependable everywhere and largely used by home and market gardeners. Loose leaved and frilled, grows quickly, fine quality.....	.15	.40	1.10

Chances are you can sell some vegetable plants at a profit.

VEGETABLE SEEDS FOR FLORISTS—Continued

Grand Rapids Forcing. The standard loose leaved variety for greenhouse forcing. Tender and sweet under glass. Best early market variety.....				1 oz.	4 ozs.	1 lb.
Mammoth Black Seeded Butter. Fine butter heading variety for home and market, especially good for summer. Heads large and firm, excellent quality and flavor.....				.15	.50	1.50
New York Special No. 12. Early, sure heading and does well in mid-summer. Very popular for shipping.....				.20	.50	1.60
ONION						
Prizetaker. Large, globular; yellow, good shipper and keeper, flesh coarse and mild.....				.25	.60	1.75
Yellow Globe Danvers. Very popular; medium large; globe-shaped; flesh white with tinge of yellow, firm and hard, excellent keeper.....				.25	.60	1.60
PARSLEY						
Extra Triple Curled. (Moss Curled). Very compact. Dark green; finely cut and closely curled.....				.15	.30	.90
Paramount. New and improved triple curled variety, unusually rich dark green foliage tightly curled, finest variety for home or market gardeners.....				.15	.30	1.00
PEPPER				1/2 oz.	1 oz.	4 ozs.
California Wonder. (Sweet). 72 days. Standard of excellence in Sweet Peppers. Used largely by market growers and shippers. Heavy producer over long period. Fruit large, smooth, dark green, becoming crimson..				.30	.60	1.90
Chinese Giant. (Sweet). 80 days. The largest Sweet Pepper. Deep green, becoming scarlet-red.....				.25	.50	1.65
Crimson Giant. 85 days. Very mild, popular home and market sort. Deep green, becoming deep crimson.....				.30	.40	1.30
Harris' Early Giant. (Sweet). 63 days. Very early for home and market; very prolific, deep green, turning red, well suited to northern states.....				.25	.40	1.40
Hungarian Yellow Wax. (Hot). Very early. Desirable for canning or market garden. Light yellow becoming bright red. Plants small, heavily productive.....				.35	.60	1.75
Sweet Bull Nose. Mild-fleshed. 55 to 60 days. Deep green becoming scarlet; early and prolific.....				.20	.35	1.10
Long Red Cayenne. (Hot). 70 days. For pickles, canning or drying, very prolific. Deep green, becoming bright red, fruit long, thin, and tapered.....				.20	.35	1.10
Pimento. (Perfection). Sweet. 72 days. Standard variety for home or market garden and for canning whole. Deep green, becoming deep red. Heavy producer, fruits smooth and regular, flesh sweet.....				.20	.30	.90
Ruby King. (Sweet.) Standard for home or market. Deep green, turning bright red. 68 days. Very productive.				.20	.35	.90
Sweet Yellow. Medium size and firm.....				.30	.50	1.50
World Beater. (Sweet). 70 days. Large, oblong, green, turning deep red; thick flesh. Very productive.....				.20	.35	1.25
RADISH						
Early Scarlet Globe. (Short Top Strain). Our strain of this very early forcing variety is a superior one; small tops make it right for bunching. 23 days. This is an ideal florists' "catch crop" for selling to local stores....				1 oz.	4 ozs.	1 lb.
Icele. 27 days. Best early standard white Radish for home and market gardens, roots long, very white and brittle, mild and good flavor.....				.10	.25	.80
Scarlet Turnip. White-tipped popular variety for home and market gardens. Tops small, roots deep, turnip-shaped, bright scarlet; fine quality.....				.10	.25	.65
SWISS CHARD, Lucullus. Deep green, fleshy, crumpled leaves, choice for greens—most popular variety.....				.10	.20	.65
SPINACH						
Giant Thick-Leaved. (Nobel). 43 days. Best of thick-leaved group; long standing; heavy yielder; deep green, smooth leaves .....					.15	.30
New Zealand. Distinctly valuable for hot, dry weather; seeds are large, nutlike; plants large and spreading; leaves small, thick, deep green and tender.....				.10	.20	.60
SWISS CHARD, Lucullus. Deep green, fleshy, crumpled leaves, choice for greens—most popular variety.....						
SWISS CHARD, Lucullus. Deep green, fleshy, crumpled leaves, choice for greens—most popular variety.....				.10	.30	.75
TOMATO						
Michigan State Forcing. New and distinct greenhouse Tomato, developed at Michigan State College. Self-pollinating, and wilt-resistant; rich, deep scarlet fruits, globular, medium size, in large clusters....Pkt. 15c..				.65	2.40	
Bonny Best. Unexcelled for all purposes including forcing under glass, smooth and firm. 73 days.....				.25	.80	3.00
Break O'Day. Early wilt-resistant, globe-shaped; fine for shipping; heavy producer, flesh firm and good quality.				.35	1.00	3.50
Chalk's Early Jewel. 75 days. Fine for home and market, heavy producer, scarlet-red—smooth and firm.....				.30	.90	3.00
Crimson Cushion, or Beefsteak. Large, round, bright scarlet; solid; very prolific. 120 days.....				.50	1.50	4.90
Dwarf Champion. Tree-like. Requires no support: medium size, solid pink fruit. 78 days.....				.45	1.50	
Dwarf Stone. 81 days. Strictly dwarf, tree-like, fruits bright red, smooth and solid.....				.45	1.50	
Earliana. Very early—particularly valuable for home and early market garden. Medium size, deep scarlet, firm and smooth. 64 days. Best all around early variety for home gardeners.....				.35	1.10	3.75
Early Detroit. Particularly valuable for shipping. Purplish pink, medium, large, smooth fruit. 78 days....				.40	1.20	4.00
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Greater Baltimore. Mid-season for truckers, canners and home gardeners. Earlier than Stone, heavy producer, deep scarlet, firm and solid.....				.30	.85	2.75
Supreme Gulf State Certified. Very fine second early for shipping and market use, crimson, medium size, very solid, thick skinned, and smooth.....Pkt. 15c..				.50	1.60	
John Baer. Standard all-purpose variety, second early, used largely for canning and market gardeners, medium size, good quality. 71 days.....				.35	1.10	3.60
June Pink. 65 days. Earliest pink, early shipper, good producer .....				.45	1.25	
Livingston's Globe. Heavy producer. Good greenhouse grower. Large purplish pink fruit: smooth and solid. Fine for market growers.....				.35	1.10	3.75
Master Marglobe. Particularly valuable for shipping and highly resistant to disease. Smooth: of distinct quality and long bearing. Fine for canners. 75-78 days .....				.35	1.00	3.60
Oxheart. Late home garden variety. Extra large, heart-shaped; few seeds, mild flavor, choice for salads.....				.75	2.10	
Penn State Earliana. Extra early, large size, smooth. Rich scarlet color; mild and solid—good producer.....				.50	1.40	
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Stone. 85 days. Valuable for market and canning; heavy producer: deep scarlet: smooth.....				.25	.80	2.90
Yellow Plum. Oval plum-shaped fruit used for preserves .....				.50	1.50	
Yellow Pear. Similar to above except for color.....				.50	1.50	
Yellow Husk or Ground Cherry. (Not a true Tomato: sometimes called Strawberry Tomato). Used for preserving. Fruits borne singly; small, round, enclosed in papery envelope; of rich, sweet flavor.....				.45	1.35	
TURNIP, Purple-Top White Globe.10	.20	.50

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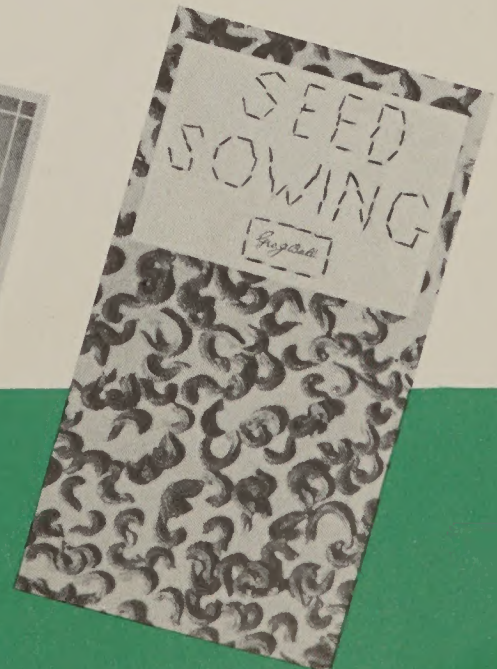
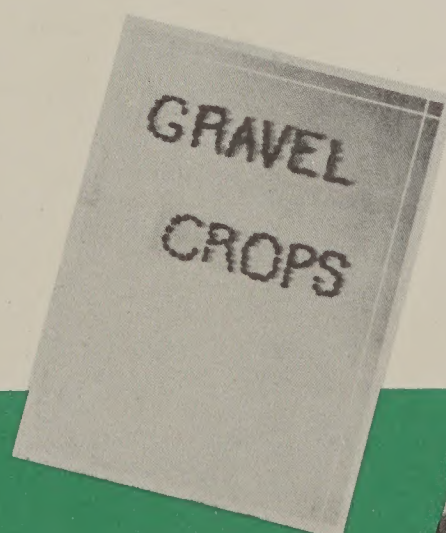
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